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The 1980 GUIDE to the EVALUATION of EDUCATIONAL EXPERIENCES in the ARMED SERVICES

Awarding Credit For Extrainstitutional Learning

The following statement by the ACE Commission on Educational Credit and Credentials has been approved by the ACE Board of Directors and endorsed by the Council on Postsecondary Accreditation.

The American Council on Education recommends that postsecondary education institutions develop policies and procedures for measuring and awarding credit for learning attained outside their sponsorship.[1]

American society abounds in resources for learning at the postsecondary level. Public, private, and proprietary education institutions exercise the central but not exclusive responsibility for instruction and learning. Associations, business, government, industry, the military, and unions sponsor formal instruction. In addition, independent study and reading, work experiences, the mass media, and social interaction contribute to learning and competency.

Full and effective use of all educational resources is a worthy educational and social goal. Achieving this goal will depend to a large extent on providing equitable recognition for extrainstitutional learning:

- Educational credentials have a significant bearing on the economic, professional, and social status of the individual. Thus, social equity requires that equivalent learning, regardless of where and how it is achieved, be incorporated into the system of records for learning and competency, and
- Recognition encourages learning and contributes to pedagogical effectiveness. Teaching students what they already know is both stultifying to them and wasteful of educational and personal resources.

Postsecondary education institutions legally authorized and accredited to award degrees and other educational credentials have a special responsibility to assess extrainstitutional learning as part of their credentialing function.

In the development of institutional policies and procedures, the American Council on Education recommends the following guidelines.

Guidelines

1. Reliable and valid evaluation of student achievement is the sine qua non in awarding credit. Experience, whether acquired at work, in social settings, in the library, at home, or in the formal classroom, is in itself an inadequate basis for awarding credit. Increased attention in choosing evaluation procedures and techniques and more thorough evaluation are necessary when learning has been attained without participation in a program of study prescribed by an educational institution and offered by its faculty.
2. In determining whether it is appropriate to accept a student's extrainstitutional learning for credit, the governing considerations should be its applicability to the student's program of study, including graduation requirements, and the relationship of the learning to the institution's mission, curricula and standards for student achievement. Learning should be articulated, documented and measured in these terms.
3. Institutions should evaluate extrainstitutional learning only in subject-matter fields in which they have or can arrange for faculty expertise or where they can rely on nationally validated examinations or other procedures for establishing credit equivalencies. Institutions should award credit in these areas only if the quality of learning meets their standards for student achievement. Normally, institutions should evaluate learning and award credit only in subject fields in which they offer courses or curricula. However, if the acquisition of college level learning outcomes has been demonstrated in an area not taught by the institution, but related to the student's program of study, an exception may and ought to be made.
4. Institutions awarding credit for extrainstitutional learning should develop clearly stated policies regarding administrative responsibility, student eligibility, means of assessment, recording of results on transcripts, storage of documentation, student fees, and maximum number of credits allowable. Information on these and related institutional policies and procedures should be disseminated to students and faculty for maximum awarenesss and utilization.
5. Institutional policy should include provision that the institution's policies and procedures for awarding credit for extrainstitutional learning should be subject to periodic reevaluation.

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[1] "Extrainstitutional learning" is defined as learning that is attained outside the sponsorship of legally authorized and accredited postsecondary educational institutions. The term applies to learning acquired from work and life experiences, independent reading and study, the mass media, and participation in formal courses sponsored by associations, business, government, industry, the military, and unions.

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The
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ARMED SERVICES

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COMMISSION ON EDUCATIONAL CREDIT AND CREDENTIALS
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Foreword

For more than thirty-five years, the *Guide to the Evaluation of Educational Experiences in the Armed Services* has been the standard reference work for recognizing learning acquired in military life. ACE has worked cooperatively with the Department of Defense and the armed services in assisting hundreds of thousands of servicemen and women to achieve recognition for their learning. The long-term success of the *Guide* evaluation system for military training has resulted in it serving as a model for the evaluation of programs offered by other noncollegiate organizations, including business, industry, government agencies, voluntary and professional associations, and labor unions. Collectively, these efforts are resulting in students combining extra-institutional learning opportunities with study at postsecondary institutions to achieve degree-related educational objectives. Not only is this sound educational practice, it is also an efficient use of educational resources and an incentive for the persons affected to undertake further study.

Special recognition must be paid to hundreds of individuals who have served as evaluators and the many educational institutions, professional and disciplinary associations, and the apprenticeship training community for their wholehearted cooperation in this endeavor. Without their support and assistance, the *Guide* would not have been possible. We are greatly indebted to them.

Once again, we are pleased to commend this work to you in your continuing work with servicemen and women and veterans.

J. W. PELTASON
President
American Council on Education

How to Find and Use Course Exhibits

This volume contains recommendations for formal courses offered by the Army and the Department of Defense.

The instructions that follow provide a step-by-step procedure for finding and using the exhibits and recommendations. Readers unfamiliar with the ACE evaluation procedures should read Appendix A. Additional information on using the *Guide* and awarding credit is provided in the Questions and Answers section.

Step 1

Have the applicant complete a "Request for Course Recommendation" form.

A "Request for Course Recommendation" form appears at the back of this volume. It may be reproduced and should always be filled out by the applicant, using the information provided on official and personal records, as well as the applicant's own knowledge of the service course. *Applicants should never refer to the Guide while completing the form.* (See questions 4 through 8 in Questions and Answers.)

Step 2

Verify course completion from military records.

It is the responsibility of the school official to verify course completion. The following military records are normally used to verify successful completion of course requirements:

1. DD Form 295, "Application for the Evaluation of Educational Experience During Military Service"—available to active-duty service personnel from military education officers. (Form must be certified by an authorized commissioned officer or his designee in order to be official.)
2. DD Form 214, "Armed Forces of the United States Report of Transfer or Discharge"—available to veterans, together with other in-service training records, from the General Services Administration, National Personnel Records Center (Military Personnel Records), 9700 Page Boulevard, St. Louis, Missouri 63132.
3. Course Completion Certificates—may be used to complement other records or when service courses are not recorded on official records.

If these records are not available, see Question 29 in the Questions and Answers section for alternative forms of verification.

(See question 1, 3, 10, and 29 in Questions and Answers.)

The following steps refer to a "course exhibit." See sample course exhibit, page ix.

Step 3

Find the course exhibit by identifying the OECC ID Number in the Course Number Index or the Keyword Index.

A. *Course Number Index.* All available military course numbers are listed in the Course Number Index in alphanumeric sequence. If the applicant's military course number cannot be located in the Course Number Index, search for the course title in the Keyword Index. (See also question 27 in Questions and Answers.)

B. *Keyword Index.* Identify all possible keywords within a formal course title. For example, the keywords in the title, "Ground Radio Communications Equipment Technician," are *Radio, Communications,* and *Equipment.* Find one or all of those keywords in the Keyword Index and search the listing under the keyword for the course title. *If the title cannot be found under one keyword, search all other possible keywords.*

C. *Identify OECC ID Number.* When the title or military course number has been located, note the corresponding OECC ID Number. This number refers to the course exhibit's location in the *Guide.* The two-letter prefix refers to the section of the Course Exhibits chapter, i.e., AR = Army section and DD = Department of Defense section. Within each section, OECC ID Numbers are presented in numeric sequence. (See question 2 in Questions and Answers.)

Step 4

Match the course identifying information with the corresponding data in the course exhibit.

Course identifying information includes the official military title, military course number, length of course, dates of attendance, location, etc., and is provided by the applicant on the "Request for Course Recommendation" form. When the course exhibit consists of multiple versions, determine which version applies to the applicant's course by considering exhibit dates and course length. (See questions 6, 7, 8, and 12 in Questions and Answers.) It is important to match all items.

Step 5

Read the course objectives and description.

Consideration should be given not only to the amount of credit and to the subject area, but also to the course objectives and description which are part of the course exhibit. These portions of the exhibit outline the course content and scope and also provide essential information about the nature of the course. (See question 9 in Questions and Answers.) This information is essential to you in determining the appropriate placement of credit for each individual student within the requirements and programs at your institution.

Step 6

Award credit, as appropriate.

Users are free to modify the credit recommendations in accordance with institutional policy and the educational goals of each individual applicant. (See questions 11 and 13-17 in Questions and Answers.)

Step 7

When assistance is required, contact the Office on Educational Credit and Credentials.

Whenever problems arise in Steps 1 through 6, and assistance is desired, contact the OECC Information Service at:

Office on Educational Credit and Credentials
American Council on Education
One Dupont Circle N.W.
Washington, DC 20036
ATTN: Military Evaluations
(202) 833-4685

Sample Course Exhibit

AF-1715-0260.

1. TELETYPEWRITER EQUIPMENT REPAIR
2. TELETYPEWRITER EQUIPMENT REPAIR (TELETYPEWRITER EQUIPMENT MAINTENANCE)

Course Number: *Version 1:* 160-31J20. *Version 2:* 11-R-341; 11-R-340; 11-E-11.

Location: Southeastern Signal School, Ft Gordon, GA.

Length: *Version 1:* 21-25 weeks (771-930 hours). *Version 2:* 18-20 weeks (703-736 hours).

Exhibit Dates: *Version 1:* 9/66-Present. *Version 2:* 12/53-8/66.

Objectives: To train maintenance personnel to operate, maintain, and repair teletypewriters and associated equipment.

Instruction: *All versions:* Lectures and laboratories in communications introduction; teletypewriter fundamentals; installation of teletypewriter systems; field and depot shop maintenance. *Version 1:* Includes facsimile equipment. *Version 2:* Includes introductory electricity.

Credit Recommendaton: *Version 1:* In the vocational certificate category, 5 semester hours in teletype repair, 1 in facsimile repair, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory and additional credit in electrical laboratory on the basis of institutional examination (6/74). *Version 2:* In the vocational certificate category, 1 semester hour in basic electricity, 5 in teletype repair, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 2 in electrical laboratory (6/74); in the upper division baccalaureate category, 1 semester hour in basic electricity, 2 in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional examination (6/74).

Related Occupation Codes: 31J.

ID Number. *A number assigned by OECC to identify each course.*

Military Course Number. The number assigned to the course by the military. Listed by version.

Length. The length of the course in weeks, with contact hours in parentheses; by version.

Exhibit Dates: The start and end dates, by month and year, by version. When course was first evaluated and when, if applicable, it was eliminated. "Present" denotes publication cut-off for this edition of *the Guide* (3/80).

Instruction. Description of instruction, including teaching methods, facilities, equipment, major subject areas covered. Normally applies to all course versions; occasionally a note may be added regarding a specific version.

Related Occupation Codes. A cross-reference to related MOS exhibits. Officials awarding credit for a course and an MOS should compare the exhibit for the course with that for the MOS before awarding credit.

Course Version Numbers and Titles. Version 1 is the most recent. If course has only one version, version number is omitted throughout exhibit.

Alternate Titles. In parentheses under the more recent title.

Location. By version. The service school, military installation, state in this example, applies to all versions (version number is omitted).

Objectives. The purpose for which the course was designed; applies to all versions.

Credit Recommendation. By version. Given in four categories: vocational certificate; lower-division baccalaureate/associate degree; upper-division baccalaureate; and graduate degree. Expressed in semester hours. (See Appendix A for detailed explanation of credit categories.)

Evaluation Date: Date when the credit recommendation was established, month and year in parentheses following each recommendation.

Important: The appropriate course version can be found by using the course title and number, its length, exhibit dates, and location.

How to Find and Use MOS Exhibits

This volume contains recommendations for all Army enlisted and warrant officer military occupational specialties (MOS's) evaluated through March 1, 1980.

The instructions that follow provide a step-by-step procedure for finding and using the MOS exhibits and recommendations. Readers unfamiliar with MOS's—how they are structured and how MOS proficiency is demonstrated—should read Appendix A. Additional information on MOS's is provided in the Questions and Answers section.

Step 1

Have the applicant submit official Army documentation to you.

Several records may be used for MOS verification. A servicemember or veteran may submit one or several of the following forms:

Enlisted Personnel:

- *Orders.* (Commanding Officer Orders, awarding a particular MOS to the individual.)
- *Course Completion Certificates.*
- USAEEC Form 10, *Enlisted Evaluation Data Report.*
- DA Form 2-1, *Personnel Qualifications Record.*
- DA Form 20, *Enlisted Qualifications Record.*
- DA Form 2166-5, *Enlisted Evaluation Report (EER).*
- DA Form 2166-5A, *Senior Enlisted Evaluation Report (SEER).*
- *Individual Soldier's Report (ISR).*

Warrant Officers:

- DA Form 67-8, 67-7, 67-6, *Officer Evaluation Report (OER).*
- DA Form 67-8-1, *Officer Evaluation Report Support Form.*
- DA Form 2-1, *Personnel Qualifications Record.*
- DA Form 66, *Officer Qualifications Record.*
- DA Form 4037, *Officer Record Brief.*

NOTE: Many warrant officers began their careers as enlisted personnel; in such cases, warrant officers may also submit their enlisted records for evaluation.

As an alternative, *enlisted soldiers and warrant officers still in active, National Guard, or reserve service* may submit DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service, when it includes the necessary occupational information. (The April 1975 version has a section "Major Service Jobs and Billets"; the July 1979 version has a section "Military Occupational History.") Both versions are acceptable when the following information is included: (1) the MOS designation, (2) the MOS title, (3) the period during which the MOS was held, (4) the MOS evaluation score (70 or above), and (5) the date of evaluation. If the reported score is an SQT score, you must still refer to the Individual Soldier's Report (ISR) for MOS verification. (See Step 2.) A person still in active or reserve service may request that DD Form 295 be completed by the education services officer and certified by an authorized commissioned officer, or his designee, at the installation where he or she is assigned.

Army records must be requested by the individual. Records may be obtained as follows:

Active-duty enlisted soldier or warrant officer. The Army installation to which he or she is assigned.

Army National Guard personnel. The National Guard unit to which he or she is assigned.

Army Reservist or retired personnel. The U.S. Army Reserve Component and Administrative Center (TAGO), 9700 Page Boulevard, St. Louis, Missouri 63132.

Army veteran. General Services Administration, National Personnel Records Center (Military Personnel Records), 9700 Page Boulevard, St. Louis, Missouri 63132. The veteran may request service records by submitting U.S. Government Standard Form 180, which may be obtained from a state's veterans affairs office, the Veterans Administration, or the National Personnel Records Center.

Step 2

Referring to military records, verify each MOS the person has successfully held.

When verifying MOS's it is important to identify the skill level. Since the higher skill levels of an MOS encompass the duties of the lower skill levels (i.e., a person with MOS 12B40 is able to perform the duties of 12B30), the credit recommendation for MOS 12B40 would include the recommendation for 12B30. Thus, you need to verify the highest skill level a person held. To do this, you may need to consult several records. To verify the MOS and the skill level, refer to the records listed in Step 1. Look for the following information:

Enlisted Personnel:

Orders: Check for the MOS designation and the date the MOS was awarded.

Course Completion Certificate: Check for the MOS designation and the date the course was completed. The certificate verifies that the person has qualified to perform the entry-level duties of a particular MOS skill level. In order to verify that a person has performed satisfactorily in the MOS, another source of verification should be required before granting credit.

USAEEC Form 10: Check for MOS evaluation score (70 or higher indicates MOS proficiency) and a breakdown of how the person performed on each section of the MOS evaluation test.

DA Form 2-1 (items 3 and 6) and *DA Form 20* (items 22 and 23): Check for MOS designation, skill level, relevant dates, evaluation scores (70 or higher indicates MOS proficiency), and dates of evaluation.

DA Form 2166-5 (EER): See sections on duty performance traits, demonstrated overall performance of assigned duties, and advancement potential. The maximum score is 125.

DA Form 2166-5A (SEER): See sections on performance qualities, leadership skills, demonstrated overall performance, and advancement potential. The maximum score is 125.

Individual Soldier's Report (ISR): Report of SQT results. Check for MOS designation, skill level, dates, and the section entitled "Verified Minimum." A "yes" in this section indicates MOS proficiency.

Warrant Officers:

DA Form 67-7: See section on description of duties for MOS designation, professional attributes, demonstrated performance, and potential.

DA Form 67-8: See section on duty description for MOS designation, performance evaluation, and performance and potential evaluation.

DA Form 67-8-1: See written statements by the rated officer and the rater.

DA Form 2-1: See items 3 and 6 for MOS designation, relevant dates, and dates of evaluation.

DA Form 66: See section 9 for MOS designation, title, and relevant dates.

DA Form 4037: See Section I for MOS designations and titles.

See Appendix H for sample copies of the above forms.

Step 3

Find the appropriate MOS exhibit in the Guide.

Using the military records, find the information necessary for locating the correct MOS exhibits. Pertinent information includes: the MOS designation, the MOS title, the dates each MOS was held, and when appropriate, the date associated with an MOS evaluation (MOS Evaluation Test score, SQT results, EER/SEER). When you cannot verify MOS proficiency through a careful examination of military records, you may wish to conduct your own assessment. (See question 25 in Questions and Answers.) Verification of MOS proficiency should precede the granting of credit or advanced standing.

There are two sections for MOS exhibits: the Army Enlisted MOS Exhibits, beginning on page 2-1, and the Army Warrant Officer MOS Exhibits, beginning on page 3-1. Within each section, exhibits are arranged by OECC ID number.

The exhibit(s) for a given MOS can easily be found when the MOS designation is known. Each MOS exhibit is assigned an OECC ID number that has three components. The first component, *MOS*, identifies the exhibit as one that pertains to an Army military occupational specialty. The second component consists of the MOS designation, e.g., 81C or 271A. The third component, a three-digit, sequentially assigned number, e.g., -001, -002, -003, uniquely identifies the exhibit. Enlisted MOS exhibit ID numbers have nine characters, e.g., MOS-81C-001. Warrant officer MOS exhibit ID numbers have ten characters, e.g., MOS-271A-001.

When the title of the MOS is known, the exhibit ID number(s) can be found by referring to the **Army Occupational Title Index.**

There may be several exhibits for an MOS. Each time there is a new recommendation for an MOS, there is a new exhibit. For example, three exhibits appear for MOS 12B. The OECC ID numbers for the three exhibits are MOS-12B-001, MOS-12B-002, and MOS-12B-003. The oldest exhibit for the MOS, the first to be evaluated, is assigned -001 as the last three characters. The last exhibit for an MOS, the exhibit ending in the higher number, is the most recent.

When there is more than one exhibit, select the correct one by referring to the exhibit dates which conform to the time frame in which the individual was awarded the MOS. The exhibit dates for each new exhibit establish continuity with the previous exhibit, e.g., if the end date for the first exhibit is 8/75, the start date for the next exhibit would be 9/75. In many cases, the date of the soldier's last MOS evaluation will indicate which exhibit is most appropriate. However, when the time period that a person held an MOS skill level spans more than one exhibit for the MOS, you should exercise your own judgment in deciding which exhibit is most appropriate. (See questions 15 and 19 in Questions and Answers.)

Step 4

Read the entire MOS exhibit.

Although credit is granted for a particular skill level of an MOS, users are urged to read the entire MOS exhibit. This will assist you in applying a given recommendation to the student's program of study at your institution. Each item in the exhibit has been prepared to help you identify or interpret the recommendations. (See sample exhibits.) The descriptions and the special notes on career progression will be particularly helpful to you.

The descriptions, which are similar to learning outcome statements of postsecondary courses and programs of study, will provide you with essential information about the learning required for proficiency in the MOS. Comparing the MOS "Description" with a description of the course or program of study that the student will pursue at your institution will help you:

- determine how much of the recommended credit applies to the course or program of study at your institution,
- identify additional areas of possible credit,
- resolve duplication of credit, when the applicant has applied for credit for more than one military learning experience,
- place the student at the appropriate point in the course sequence or program of study.

In addition, the exhibits contain special notes on career progression. These notes will help you identify other areas of possible credit and resolve duplication of credit. Enlisted MOS descriptions often include special notes on prerequisite MOS's and normal patterns of career progression. In warrant officer MOS exhibits, other MOS's an individual may have held are listed in the exhibit item, "Career Pattern."

Step 5

Award credit, as appropriate.

The MOS recommendations are advisory. They are intended to assist in formally recognizing the learning of enlisted soldiers, warrant officers, and veterans and in placing them in postsecondary programs of study, apprenticeship programs, and jobs. The recommendations may be modified.

When an applicant has applied for credit for more than one military learning experience, you may find that you will have to reduce the recommended credit to avoid granting duplicate credit. (See questions 11, 18, 20, and 21 in Questions and Answers.)

You may also wish to increase the recommended credit to account for the learning that the applicant may have acquired in other military or nonmilitary settings. (See questions 22 and 24–26 in Questions and Answers.)

Step 6

When assistance is required, contact the Office on Educational Credit and Credentials.

OECC operates an information service to assist education officials, apprenticeship and training officials, and employers in evaluating the learning experiences of military personnel. Publication of the *Guide* is part of that service. However, there are instances when additional assistance is needed.

When requesting an exhibit for an enlisted or warrant officer MOS, complete a copy of the "Request for Army Enlisted and Warrant Officer MOS Exhibits" form that appears at the back of this volume. Use the form only to request exhibits for MOS's that are listed as "Pending evaluation." When an MOS is not listed in the *Guide*, OECC has not evaluated the MOS and has no plans to do so. (See question 19 in Questions and Answers.)

When assistance in interpretation is needed and it appears that official military records will help OECC staff members in responding to an inquiry, copies should be attached to the letter of inquiry. *Do not send original records.*

When an MOS exhibit or assistance in interpretation is needed immediately you may telephone the Office on Educational Credit and Credentials at (202) 833-4685. (Sorry, no collect calls). Whether inquiring by letter or telephone, however, you should always obtain information concerning MOS exhibits directly from the Office on Educational Credit and Credentials, not the applicant. (See question 8 in Questions and Answers.)

Inquiries concerning *MOS exhibits* should be addressed to:

Office on Educational Credit and Credentials
American Council on Education
One Dupont Circle, N.W.
Washington, D.C. 20036
ATTN: MOS Evaluation Program

Sample Enlisted MOS Exhibit

ID Number. A nine-character code assigned by OECC to identify each enlisted MOS exhibit.

MOS Designation. The five-character codes that identify the MOS and each of its skill levels. An MOS may have as many as five skill levels (e.g., Skill Levels 10, 20, 30, 40, and 50) or as few as one. The enlisted MOS structure is fully described in Appendix A.

Career Management Field. Two digits and a title designating a group of related MOS's, if divided into subfields (three digits and a title), the subfield is also provided. When a person has held more than one MOS in the same career management field or subfield, you should be alert to the possibility of overlapping recommendations. Brief descriptions of enlisted career management fields are provided in Appendix D.

Description. A summary description applying to all skill levels and a specific description for each skill level. Provides information about the duties performed and the qualifications required for proficiency in the MOS. It indicates the rationale behind a given recommendation and provides information that can be used as a starting point should you wish to conduct further assessment of the learning a soldier or veteran has acquired. The description is also useful in making decisions when recommendations from more than one learning experience appear to duplicate each other.

Date of evaluation. By month and year. Follows the recommendation for each skill level.

Important: Read entire MOS exhibit before awarding educational credit or advanced standing in an apprentice training program.

MOS-81C-001

CARTOGRAPHIC SPECIALIST
(CARTOGRAPHIC DRAFTSMAN)

81C20
81C30
81C40
81C50

Exhibit Dates: 10/74–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Summary: Supervises or performs cartographic drafting activities, compilation or revision of planimetric and topographic maps, or construction of scale models of terrain. *Skill Level 20:* Draws or scribes cultural, topographic, hydrographic, or other features on drawings, transparent overlays, and scribing surfaces for reproduction of maps. NOTE: May have progressed to 81C20 from 81A10 (General Draftsman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; compiles and revises planimetric and topographic maps. *Skill Level 40:* Able to perform . . .

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 12 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 16 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, and 3 in introduction to management, for a total of 19 semester hours (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, and 3 in introduction to management, 3 in personnel supervision, and 3 for field experience in management, for a total of 25 semester hours (12/75).

Title. The official Army title of the MOS during the period of the exhibit dates. If the title changed during that period, the newer title is given first and the older title is given in parentheses on the next line.

Exhibit Dates. Start and end dates by month and year. The earliest start date for enlisted MOS's is 10/73 because ACE does not have the information necessary to evaluate enlisted MOS's as they may have existed earlier than 10/73. When an end date is given, the MOS was either discontinued (an explanation is provided) or changed (another exhibit will follow for the MOS, e.g., MOS-81C-002). The term, "Present," as the end date indicates that the MOS still exists and the exhibit is current as of March 1, 1980. Some exhibits will end with the phrase "Pending Evaluation."

Recommendation. By skill level. Only the recommendation for the *highest* skill level held should be used; skill-level recommendations should *not* be added.

Educational credit is recommended in four possible categories: vocational certificate; lower-division baccalaureate/associate degree; upper-division baccalaureate; and graduate degree. (See Appendix A for category definitions.) The recommendation normally specifies the number of semester hours recommended and the appropriate subject area, program of study, or discipline in which the credit might be applied.

Advanced standing in an apprentice training program, when recommended, is expressed in clock hours of experience and contact hours of related instruction. For example, the apprenticeship recommendation in the exhibit MOS-22K-001 at Skill Level 40 is: "In an electronic technician apprentice training program, 1,200 clock hours of experience and 250 contact hours of related instruction (3/75)."

You are free to modify the recommendation.

Sample Warrant Officer MOS Exhibit

ID Number. A ten-character code assigned by OECC to identify each warrant officer MOS exhibit.

MOS Designation. The four-character code that identifies the MOS plus the neutral fifth character, zero ("0"). The zero is added as a reminder that the MOS evaluation does not include the evaluation of learning associated with Special Qualifications Identifiers (SQIs). When a person's MOS designation includes an SQI, signified by a letter or number other than zero as the fifth character, additional credit may be granted on the basis of individual assessment (refer to Appendix E).

Description. Provides information about the duties performed and the qualifications required for proficiency in the MOS. It indicates the rationale behind a given credit recommendation and provides information that can be used as a starting point should you wish to conduct further assessment of the learning a warrant officer or veteran has acquired. The description is also useful in making decisions about how much credit to grant when credit recommendations from more than one learning experience appear to duplicate each other.

MOS-271A-001

LAND COMBAT SUPPORT MISSILE SYSTEMS
REPAIR TECHNICIAN

271AO

Exhibit Dates: 10/66–Present.

Career Pattern

May have progressed to Land Combat Support Missile Systems Repair Technician from MOS 27B (Land Combat Support System Test Specialist/Lance Repairer), MOS 27D (Lance Missile System Repairman), MOS 27E (Wire-Guided Missile Systems Repairman or TOW/Dragon Repairer), MOS 27H (Shillelagh Repairer), or MOS 27Z (LCSS Missile Maintenance Chief).

Description

Manages supply, equipment, facility, and personnel assets in the maintenance and repair of land combat support missile systems (short- or medium-distance guided missile weapon systems), associated system-designed electronic test systems, and training devices; directs the activities of personnel engaged in isolating malfunctions occurring in electronic firing and guiding systems and components; analyzes complex malfunctions; supervises repair of and modifications to systems components, including guidance control systems, optical . . .

Recommendation

In the vocational certificate category, 6 semester hours in electronics theory and laboratory and 2 in use of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 2 in maintenance management, and 1 in technical report writing for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives (3/77).

Title. The official Army title of the MOS during the period of the exhibit dates. If the title changed during that period, the newer title is given first and the older title is given in parentheses on the next line. A title in the exhibit may be different from the title that appears on the person's Army records, which may be the title of a Special Qualifications identifier (see Appendix E).

Exhibit Dates. Start and end dates by month and year. The start dates vary considerably for each warrant officer MOS exhibit. Each start date reflects an historical tracing of the MOS requirements. The end date for all warrant officer MOS's that have been evaluated is given as "Present," indicating that the exhibit is current as of March 1, 1980. Some exhibits will end with the phrase, "pending evaluation."

Career Pattern. Enlisted or other warrant officer MOS's that an individual may have held. You should be alert to the possibility of overlapping recommendations when a warrant officer has held one or more of these MOS's.

Recommendation. Educational credit is recommended in four possible categories: vocational certificate, lower-division baccalaureate/associate degree, upper-division baccalaureate, and graduate degree. (See Appendix A for category definitions.) The recommendation normally specifies the number of semester hours recommended and the appropriate subject area, program of study, or discipline in which the credit might be applied.

Recommendations for warrant officer MOS's are limited to recommendations for educational credit. No warrant officer MOS's have been evaluated for advanced standing in apprentice training programs because warrant officer duties are administrative and supervisory in nature.

You are free to modify the recommendation.

Date of Evaluation. By month and year.

Important: Read entire MOS exhibit before awarding educational credit.

Questions and Answers

This section is designed to answer questions that may arise about using the Guide and awarding credit.

1

An applicant at my institution has submitted a DD Form 214 that lists abbreviated course titles which I cannot decipher. The form does not contain enough information for me to find the courses in the *Guide*. What should I do? Military records often provide insufficient information for education officials to properly identify courses. For that reason, OECC has designed the "Request for Course Recommendation" form, which can be used to supplement records. The applicant for credit should be responsible for interpreting the information on his or her records and presenting the data in readable form. You may also use course completion certificates and other training records to verify entries on the DD Forms 214 and 295. It is recommended that you automatically require students to complete the Request for Course Recommendation Form. Then, if you need help from OECC, simply authorize the form and submit it to OECC.

2

When an applicant brings information on a number of courses completed, I can usually find exhibits for only a small percentage of the courses in the *Guide*. Am I doing something wrong? The course evaluations done by the Office on Educational Credit and Credentials probably represent about 30 percent of the total number of courses offered by the armed services. The remaining 70 percent cannot be evaluated for one reason or another. In general, courses evaluated and published in the *Guide* are offered on a full-time basis (a minimum of thirty contact hours of instruction a week) for not less than two weeks' duration; or, if less than two weeks in length, the courses must include a minimum total of sixty contact hours of academic instruction. (Prior to 1973 the minimum length requirement was three weeks or 90 contact hours.) Very few correspondence courses are listed in the *Guide* because such programs were not evaluated until the mid-1970s. However, recently we have begun to evaluate selected correspondence courses. These courses will be listed in the Keyword Index under "Correspondence" for easy identification. One criterion for reviewing correspondence courses is the establishment of an ongoing proctored end-of-course examination program. Another requirement for evaluation is that a course be formal as defined by the services, i.e., offered to meet servicewide training requirements and published in the formal schools catalog for the service. This requirement generally excludes locally organized and command-level training programs, as well as courses offered on a one-time basis. You will find no courses conducted prior to 1954 listed in this guide. You must always submit a Request for Course Recommendation Form to this office for assistance with courses taken from the 1940s up until 1954. When in doubt about the availability of any evaluation for any service course, contact the OECC Information Service by telephone or by submitting a Request for Course Recommendation form.

3

I understand many military records were destroyed in a fire at the General Services Administration several years ago. What do I do if the applicant's military records were among those destroyed? Many records were reclaimed or reconstructed and are now available. In addition, the applicant's copies of certificates may be used in lieu of records destroyed in the GSA fire.

4

May I submit a Request for Course Recommendation form that the student has filled out with information from the *Guide*? A form filled out by a student who copies information from the *Guide* cannot be used by the OECC Information Service staff for identification purposes because that information only duplicates data already published. One of the purposes of the Request for Course Recommendation form is to secure information about a course from the student, ideally through official records, but also from his or her personal knowledge or memory of the course. With this first-hand information, you may find the correct course exhibit in the *Guide*. If you cannot find it, you may send the request form to the OECC Information Service.

The OECC staff can then use this additional information to search its extensive files for matching information. When a student attempts to identify a course taken years ago by extracting *current* titles and/or course numbers from the *Guide,* he or she may in fact be identifying a *similar* course but not the one he or she may have taken. This can be misleading and it seriously handicaps the OECC research staff. Only accurate and verified information is to be submitted.

5

Who should send in the Request for Course Recommendation form? The form should be completed by the applicant and authorized by you, the institution official. Credit recommendations will be forwarded to your institution only when you authorize us to do so. While we do provide credit recommendations to applicants upon receipt of their requests, we encourage them to apply through their schools. We do not normally send a credit recommendation to a college at the request of a student applicant.

6

Why is so much information needed on the Request for Course Recommendation form? You cannot be sure that you have identified the correct exhibit in the *Guide* unless all the information on the form matches the corresponding items in the course exhibit. The course title, course number, name and location of the service school, and length of the course shown on the form should be identical to the information in the exhibit. In addition, the dates of attendance should fall within the exhibit dates.

A complete and accurate form will also help the OECC Information Service research the course. OECC credit recommendations are for *specific* courses; therefore, all items must be identical if a positive identification is to be made.

7

What do I do when the information on the Request for Course Recommendation form doesn't exactly match the information in the course exhibit? Send an authorized form to the OECC Information Service. Send the form in yourself; do not give it to the student to submit. Send *copies* of military records if you think they'll provide additional information. If OECC cannot identify the course and supply a credit recommendation, you may still grant credit to the applicant by conducting your own assessment of the applicant's learning. (See question 25 for information about assessment techniques.)

8

How long does it take to receive a response if I submit a properly completed request form? About three weeks for most requests, longer for those requiring extensive research. Every effort will be made to respond as quickly as possible. If you wish, you may call in requests, but if research is involved, OECC will ask you to send a written response. If you are calling in with a request, be sure to have all pertinent information (See Question 6) available to give to the OECC staff person.

9

How can I get additional information about the courses in the *Guide?* Sometimes the descriptive material in the exhibit is not detailed enough for me to make a decision about granting credit. What do I do then? With the exception of a few computer-taught or classified courses, OECC has on file the programs of instruction for all courses listed in the *Guide.* When necessary, OECC can provide the topic outline from the military syllabus, and in those instances where an entire program of instruction is needed, arrangements can be made to photocopy the entire syllabus.

10

What are USAFI and DANTES? Can I grant credit for the courses and tests listed on an applicant's USAFI or DANTES military test reports? USAFI was the United States Armed Forces Institute, which offered an extensive educational program to active-duty personnel. USAFI correspondence, seminar, and self-study courses, end-of-course tests, and Subject Standardized Tests (SSTs) were made available to service personnel worldwide until 1974, when USAFI was disestablished. Subsequently, the Defense Activity for Non-Traditional Education Support (DANTES) was established in 1974, and that agency continued the development and administration of Subject Standardized Tests and other educational services. OECC continues to recommend credit for USAFI offerings and DANTES SSTs.

In verifying completion of USAFI or DANTES courses or tests, the military test report should not be considered official. That report is given to all service personnel who have taken a course or test. To obtain official USAFI or DANTES transcripts, refer to the addresses provided in Appendix A, under "Other Recommendations."

11

What is the significance of the date which appears after each credit recommendation? That date is called the "evaluation date" and represents the month and year the credit recommendation was established. Each time a course or MOS is evaluated, a date is provided so that you know when the course or MOS was last considered in terms of a credit equivalency. The date tells you how recently a recommendation was established so that you can judge the currency of the credit recommended. This information is particularly useful in subject areas where "state of the art" is important in determining the applicability of credit. You can also use the evaluation date when your institution has established a "statute of limitations" for acceptance of transfer credit. The date is provided purely for your information; do not confuse the date with exhibit dates or effective dates.

12

An applicant completed a course in 1973, but the *Guide* exhibit dates are 5/74 to Present. Should I grant credit based on the *Guide?* The exhibit dates shown in the *Guide* indicate the time period for which OECC has information on the course. The course may have been offered for several years prior to the exhibit "start" date, but since the service branch did not submit information on the course during that time period, OECC is not able to backdate the exhibit to cover it. If you can be reasonably sure, from other information provided by the applicant (length, course content description), that his or her course was the same or similar to the course listed in the *Guide,* then you may want to grant credit based on the *Guide* recommendation. If the applicant's course was a number of weeks longer or shorter than the one covered in the *Guide* exhibit, you may be able to grant credit based on a comparison of the applicant's information with the descriptive information in the *Guide.* The Office on Educational Credit and Credentials encourages you to conduct your own assessment of courses for which no credit recommendation is available. (See Question 25 for information about assessment techniques; for information on MOS exhibit dates, see questions 15 and 19, and Step 3 in How to Find and Use MOS Exhibits.) OECC staff can often provide you with military formal school catalog descriptions of a course outside the time period in the exhibit. This should help you determine whether you might apply the credit listed in the guide exhibit based on your own comparison.

13

What does it mean when an MOS is listed as PMOS, SMOS, AMOS, or DMOS? Can I still use the ACE recommendation for the MOS? Army records may show an enlisted MOS as primary (PMOS), secondary (SMOS), additional (AMOS), or duty (MOS); a recommendation for any type of MOS can be used, provided the individual has demonstrated proficiency in that MOS.

14

How do I determine whether an applicant is eligible to receive the credit recommended in the enlisted MOS exhibits? To determine eligibility for an MOS recommendation, you must first verify the applicant's MOS proficiency. There are a number of sources available for MOS verification. The information in italics lists the forms on which you can find the information:

1. Supervised on-the-job training (10/73–Present).
   Military Orders Awarding the MOS
2. MOS-producing course (10/73–Present).
   Course Completion Certificate.
3. MOS Test (10/73–12/76).
   - *USAEEC Form 10, Enlisted Evaluation Data Report. Gives the MOS evaluation score and a breakdown of how the person performed on each section of the written test.*
   - *DA Form 2-1, Personnel Qualifications Record, Items 3 and 6. Lists each MOS and skill level a person held, relevant dates, evaluation scores, and dates of evaluation.*
   - *DA Form 20, Enlisted Qualifications Record, Item 22. Lists each MOS and skill level a person held, relevant dates, evaluation scores, and dates of evaluation.*
4. Enlisted Evaluation Report (EER) and Senior Enlisted Evaluation Report (SEER) (10/73–Present).
   DA Form 2166-5 (EER) or DA Form 2166-5A (SEER). Gives the supervisor's rating and comments regarding occupational performance.
5. Skill Qualification Test (SQT) (1/77–Present).
   Individual Soldier's Report (ISR). Indicates whether or not the minimum score required to verify the MOS or requalify in it has been achieved.

15

What if the applicant held the MOS before the start date of the MOS exhibit? Should I still use the recommendation to grant credit to this person? If you have the institutional resources to do so, you should do some investigating before deciding to accept or modify the recommendation. Since MOS duties and skill level structures sometimes change, you need to determine if the earlier MOS is the same as the current MOS described in the *Guide.* You may be able to confirm the comparability of the new MOS description with an old description. There are three steps you will need to follow in deciding whether or not to award credit:

1. Obtain a description of the MOS as it existed when the person held it. If the person held it since October 1973, write to the OECC Information Service for a copy of the Army description (be sure to tell us when the person held the MOS). If the person held it before October 1973, ask the person to provide a copy of the Army Regulation description of the MOS that was in effect when he or she held the MOS. Use the description to identify the learning outcomes represented by the MOS.

2. Determine whether the individual demonstrated proficiency in the MOS. If the person held the MOS since October 1973, follow the procedures outlined in Question 14 and Steps 1 and 2 in the "How to Find and Use MOS Exhibits" section to determine MOS proficiency. If the person held the MOS before October 1973, conduct your own assessment to verify that the person achieved the learning outcomes represented by the MOS. (See Question 25 for information about assessment techniques.)

3. Determine how much credit may be granted to the person. A careful comparison of the description in the MOS exhibit and the one obtained in Step One, above, may reveal whether the MOS was substantively different. If it was not, the credit recommendation in the exhibit may be used. If specific differences are identified, then the recommended credits may need to be modified accordingly.

16

Is a four-digit number such as 5241 an acceptable warrant officer MOS designation? In some cases, yes. The four-digit number is the warrant officer MOS designation that was used before the present warrant officer MOS classification system was adopted in June 1961. For example, the MOS designation for Bandmaster was 5241 and is now 031A. When the start date for a warrant officer MOS exhibit is earlier than 6/61, the four-digit MOS designation is provided in the MOS exhibit because some warrant officer records may show the old number.

17

Do I have to verify an MOS evaluation score for warrant officers, too? No. A warrant officer's eligibility for the recommendation can be verified by checking DA Form 67-7, "Officer Evaluation Report."

18

Should I award credit to a warrant officer for his or her *enlisted MOS's?* Yes, you may award credit for any combination of learning experiences. (See also question 20.)

19

When an MOS exhibit includes the statement, "Pending evaluation," how will I know when the ACE recommendations will be available? The "abbreviated" exhibit format was developed to let you know the evaluation status of MOS's. Such exhibits include only the OECC ID number, the MOS title, the MOS designations, and the exhibit dates with the statement, "Pending evaluation." When you encounter the statement, two things are certain: (1) the MOS is one that was in use as of the publication cut-off date of March 1980 and (2) ACE plans to evaluate it. As MOS recommendations are available they will be announced in the *OECC Newsletter.* Inquiries about the evaluation status of an MOS should be directed to the OECC Information Service (see Step 6).

20

I have looked up several courses and MOS's for one applicant. It appears that a lot of the recommended credit is in the same subject area. How can I avoid granting too much or duplicate credit to this person? Also, if I grant credit for a course, should I also grant credit for the MOS? You may grant credit for any combination of learning experiences. In doing so, however, you must be alert to the possibility of overlapping credit recommendations. If the person is applying for credit for more than one learning experience, the recommendations might cover some of the same learning. In such cases, awarding a simple total of the recommended credits could result in the award of more credit than the learning merits. Credit recommendations may overlap between (1) related courses, (2) MOS's and related courses, (3) related enlisted MOS's, and (4) enlisted and warrant officer MOS's. The course exhibits and the MOS exhibits contain information that will assist you in identifying cases of duplication.

1. *Course recommendations* will overlap when the individual has participated in several military courses in the same subject area and at the same level.

2. *Course recommendations and MOS recommendations* will overlap when the individual has acquired his or her proficiency, or a significant portion of it, through completion of one or more formal service school courses. That is, some formal courses are MOS-producing; successful completion of the course leads to the award of a specific MOS. Other courses often supplement on-the-job training and work experience and are clearly related to the skills, competencies, and knowledge required for proficiency in a

warrant officer MOS or in one or more enlisted MOS skill levels. Related MOS's include those awarded upon completion of the course, those required as a prerequisite to the course, and those for which the course is supplementary.

3. *Enlisted MOS recommendations* will overlap when the soldier or veteran has held two or more MOS's that require related qualifications and the performance of related or similar duties. MOS's in the same career management field or subfield are probably related. Related MOS's are also noted in the summary and skill-level descriptions in the exhibit. You may also encounter overlap in the apprenticeship recommendations for two or more enlisted MOS's. You may wish to evaluate the individual's proficiency by performance examination before awarding advanced standing in an apprentice training program or waiving apprenticeship requirements.

4. *Enlisted and warrant officer MOS recommendations* will probably overlap because most warrant officers progress through the enlisted ranks, in enlisted MOS's directly related to warrant officer positions. Related MOS's are noted in the "Career Pattern" item in warrant officer MOS exhibits.

To reconcile overlapping credit recommendations, compare the descriptions and recommendations for each course and/or MOS and interview the soldier or veteran to obtain additional information. When the learning outcomes, courses in which credits are recommended, and the number of credits recommended for a given course or subject are the same or very similar, there is overlap, and you should modify the credit recommendations to avoid granting duplicate credit. To determine how much credit may be awarded without duplication to an individual who has completed a number of courses and held a number of MOS's, use the following steps:

1. Identify Army MOS's held and formal courses completed by the individual from the official military records the individual provides.
2. Locate all pertinent and available MOS exhibits and course exhibits in the *Guide,* and note the "Related Occupation Codes" listed in the course exhibit.
3. For enlisted MOS's, locate the correct skill level within each enlisted MOS exhibit; for courses, locate the correct version within each course exhibit.
4. Read and compare all the descriptions.
5. Identify the appropriate recommendations in each exhibit, on the basis of the person's program of study.
6. Read and compare all the pertinent recommendations. It may be helpful to list the amount of credit and the subject areas of each recommendation.
7. If necessary, obtain additional information from the individual through interview or further assessment.
8. When the nature and extent of the individual's learning has been identified, refer to all pertinent recommendations and make decisions on how much credit may be awarded without duplication. Credit should be awarded as appropriate to the educational goals of the individual and the institution.

If you cannot determine whether duplication exists, write the OECC Information Service.

21

Why does the MOS I just looked up have more credit recommended than the course that leads to it? Discrepancies between the credit recommendations for related courses and MOS's are not uncommon. Indeed, it is rare for the subject matter covered in a course to perfectly coincide with the learning represented by occupational proficiency. In most cases, there is quite a difference in scope: a difference in the subject matter mastered by the learner and, when the subject matter is the same, a difference in the depth, breadth, and extent of the learning.

Usually the scope of a course is narrower than that of the job. Most Army courses are designed to prepare the soldier to be able to function on-the-job or to take on additional tasks. As such, the courses normally provide entry-level occupational skills and competencies. However, successful performance on the MOS test is predicated on the additional factor of job experience and/or extensive self-instruction.

Enlisted and warrant officer MOS's related to courses are listed in the course exhibit item, "Related Occupation Codes," in Army course exhibits. A related MOS may be one that is awarded upon completion of the course, one for which the course is supplementary, or one which is required as a prerequisite to the course. Therefore, this item in the course exhibit tells you that there is a relationship—a likelihood of overlapping credit recommendations—between the MOS and the course. The term "overlapping" connotes that at least part of the learning represented by the MOS is the same as that for the course; therefore, some of the credits recommended may duplicate each other. A suggested procedure for resolving duplication is given in the answer to question 20.

22

When credit is recommended in more than one category, what should I do? Credit has frequently been recommended in more than one category. One reason for multiple-category recommendations is that the scope of a given MOS or course reflects learning in several subject fields at different levels of complexity. The learning outcomes acquired in a course or MOS in one subject field may apply to courses normally included in lower-division baccalaureate/associate degree programs while those in another subject field may apply to courses normally included in upper-division baccalaureate programs. Another reason for multiple-category recommendations is that faculty members who serve as evaluators decide that learning in a given subject field can be applied to courses and programs of study encompassed by more than one of the categories; that is, learning in electronics, for example, may apply to the vocational certificate category and to the upper-division baccalaureate category. A thorough reading of the exhibit will help you to determine which category is the best for you to apply. You will need to read the exhibit and compare learning outcomes achieved and course objectives and content with those of your own institution.

In the first instance—learning in several subject fields—the recommended credits may be added as long as all the subjects are applicable to the student's program of study at your institution.

> *Example A:*
> In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills and 1 in principles of management. In the upper-division baccalaureate category, 3 semester hours in personnel management (6/75).

In Example A, up to 5 semester hours may be awarded if they apply to the student's program: 1 in communication skills, 1 in principles of management, and 3 in personnel management.

In the second instance—learning in a given subject field that is applied to two or more categories—the recommended credits probably should not be added. You will have to determine how they apply to the student's program of study at your institution.

> *Example B:*
> In the vocational certificate category, 15 semester hours in electricity or electronics. In the lower-division baccalaureate/associate degree category, 10 semester hours in electricity or electronics. In the upper-division baccalaureate category, 5 semester hours in electricity or electronics.

In Example B, to determine how many credits to award, compare the information in the exhibit description with the desired outcomes of electricity or electronics or related courses and programs of study at your institution. Award credit based on comparison of these outcomes.

As a general rule, you should read the course description or the MOS summary and skill level descriptions, and then award credit as it best applies to the student's program of study, as determined through academic counseling.

Credit may be applied to a student's program in various ways: (1) applied to the major to replace a required course; (2) applied as an optional course within the major; (3) applied as a general elective; (4) applied to meet basic degree requirements; or (5) applied to waive a prerequisite. Credit granted by a postsecondary institution will depend on institutional policies and degree requirements.

23

I have a course recommendation in which credit in more than one category—but in the same subject area—is recommended. It looks like a combination of the previous examples. What do I do in that case? Credit categories could be combined, if, for example, the recommendation is:

> In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in office management. In the upper-division baccalaureate category, 3 semester hours in office management and 2 for field experience in management (11/75).

The 3 semester hours in office management recommended in the lower-division baccalaureate/associate degree category and the 3 in office management recommended in the upper-division baccalaureate category should not be combined for a total of 6. Eight semester hours might be granted if they apply to the student's program: 3 in typing, 3 in office management, and 2 for field experience in management. The evaluators have described the course content, and using that description from the course exhibit, you must determine the appropriate application of the credit recommendation.

24

Do I have to grant credit *exactly* as it appears in the recommendation? No. You are under no obligation to grant credit, although most colleges do recognize learning that occurs in a military setting. The use of ACE recommendations is the prerogative of education officials and employers. The recommendations are provided to assist you in assessing the applicability of a person's military learning experiences to his or her educational program or occupation. *You may modify the recommendations in accordance with your institution's policies and practices.*

You should keep in mind that the recommendations are advisory and are designed as a tool for use in giving due recognition to an individual for his or her learning experiences in the armed services. You should also keep in mind that the learning of some service personnel may exceed the skills, competencies, and knowledge evaluated for a specific course or MOS. In these cases, you may wish to conduct further assessment. (See question 25 for information about assessment techniques.)

25

May I conduct my own assessment of an applicant's learning? Yes. In a sense, you are *always* conducting your own assessment, even when you use the recommendations in this book. The *Guide* is one of many tools you can use to assess what an applicant has learned and how that learning can be applied to a specific program of study at your institution. When you cannot find a recommendation in the *Guide* or obtain one from OECC Information Service, we encourage you to use other means to assess what the person has learned.

There are a wide variety of assessment techniques that you can use, e.g., written examinations, oral examinations, faculty committee assessment, evaluation of materials supplied by the applicant, personal interviews, performance tests, and standardized examinations such as CLEP. A combination of several techniques will usually result in a reliable assessment of the person's learning.

You may learn more about assessment techniques through the publications of the Council for the Advancement of Experiential Learning (CAEL), formerly the Cooperative Assessment of Experiential Learning. Two CAEL reports give particularly helpful overviews of the topic: *A Compendium of Assessment Techniques*, by Joan Knapp and Amiel T. Sharon (CAEL-11; $4.50), and *Principles of Good Practices in Assessing Experiential Learning*, by Warren W. Willingham (CAEL-27; $4.00 for a single copy, $3.00 each for ten or more). The publications may be purchased from CAEL, American City Building, Suite 212, Columbia, Maryland 21044.

You should also watch for new additions to the *ACE Guide Series*, which now comprises the *Guide* and a companion volume, *The National Guide to Educational Credit for Training Programs*, which lists recommendations for courses offered by business and industry, government agencies, professional and voluntary associations, and labor unions. The 1980 edition of *The National Guide* may be purchased from the ACE Publications Department ($22.00 a copy, prepaid). The office plans to add a guide to credit-by-examination programs to the series. Availability of the new guide will be announced in the *OECC Newsletter*.

26

I am an employer. How will the *Guide* be useful to me? Employers may find the exhibits helpful in hiring and placing veterans in jobs. The recommendations and descriptions enable you to compare a veteran's training and experience with the qualifications and requirements for jobs. The recommendations relate learning to postsecondary courses and curricula and, in some cases, to apprentice training programs.

27

The Course Number Index in the *Guide* contains Army course numbers that are eight digits long, but service records usually provide only a five-digit course number. How can I identify a course with this type of number? The Army course numbering system consists of the three-digit DoD Enlisted Occupation Code followed by the Army five-digit MOS code. Many service records, however, provide only the MOS code that relates to an Army course. To identify the correct course exhibit when you have only an MOS code, refer to Appendix G, the Conversion Table of MOS's to DoD Enlisted Occupation Codes.

To use this table, you must identify the first three digits of the five-digit MOS code (e.g., the first three digits of MOS 35E20 are 35E). Look up the three-digit code (35E) in the table and find the corresponding DoD code (198). You now have the complete Army Course Number (198-35E20) and are able to use the Course Number Index.

28

I found the correct exhibit in my 1978 Guide but under Credit Recommendation it says "Pending Evaluation." My student can't wait for the 1980 Guide to find out what credit she might receive. What should I do in such a case? Staff members of the Office on Educational Credit and Credentials regularly schedule site evaluations. We publish the titles of courses, Army MOS's, and Navy ratings in the Newsletter so that you may be aware of the availability of recommendations. When a course or occupation is listed as "Pending Evaluation," you may call the office to find out if a credit recommendation is available, or you may simply send in your authorized "Request for Course Recommendation" or "Request for Army Enlisted and Warrant Officer MOS Exhibits" form. The Guide system is constantly growing as courses and occupations are added to the data base.

29

One of my students completed a formal military course but does not have a DD Form 295 or DD Form 214 because he was not on active-duty service. Can I grant credit for the course and how can I verify that the course was actually completed? We recommend that school officials use the DD 295 or DD 214 whenever available in verifying successful completion of a service course. This suggestion is not intended to exclude those individuals who do not have access to the forms because they were 1) on reserve status, 2) in the National Guard, or 3) civilians attending military courses. In such cases, we suggest that alternative forms of certification, such as course completion certificates or other acceptable records of training, be used to verify eligibility for credit. The following summary of records sources might be used in seeking alternative records:

National Personnel Records Center (Military Personnel Records), 9700 Page Boulevard, St. Louis, MO 63132—the primary source for in-service training records for discharged or retired personnel.

USAF, Military Personnel Center, Military Personnel Records Division, Randolph AFB, TX 78148—for active AF members including National Guard on active duty in the Air Force and general officers retired with pay.

Air Reserve Personnel Center, 3800 York Street, Denver, CO 80205—for reserve personnel, retired reservists in non-pay status, and members of the National Guard released from active duty and transferred to reserve.

Commandant, U.S. Coast Guard, Washington, DC 20590—for Coast Guard active, reserve, and officers separated before 1-1-29.

Commandant of the Marine Corps, Headquarters, U.S. Marine Corps, Washington, DC 20380—for Marine Corps active members, reserve officers, and Class II enlisted reserve.

Marine Corps Reserve Forces Class III, 1500 E. Bannister Road, Kansas City, MO 64131—for Marine Corps Class III reservists (inactive).

National Archives and Records Service, National Archives Building, Washington, DC 20408—for Army officers separated before 7-1-17 and enlisted separated before 11-1-12.

Commanding Officer, U.S. Army Administration Center, TAGO, 9700 Page Boulevard, St. Louis, MO 63132—for Army Reserve, current National Guard members, records of active duty in U.S. Army, and living retired members other than general officers.

The Adjutant General, ATTN: AGPF, Department of the Army, Washington, DC 20310—for active Army officers, including National Guard on active duty in the U.S. Army, and retired general officers.

Commanding Officer, U.S. Army Enlisted Personnel Support Center, Ft. Benjamin Harrison, IN 46249—for active enlisted personnel, including National Guard, on active duty in the U.S. Army.

Chief of Naval Personnel, Department of the Navy, Washington, DC 20370—for Navy active members, reserve officers, and enlisted reserve in drill status.National Guard Bureau, Washington, DC 20310—for current National Guard officers not on active duty in the Army or Air Force.

The Adjutant General of the Appropriate State, District of Columbia, or Puerto Rico—for current National Guard enlisted personnel not on active duty in the Army or Air Force.

30

As registrar of a four-year college, I use only the upper-division baccalaureate category in granting credit for military courses listed in your Guide. That is the correct approach, isn't it? Not necessarily. Depending on the recommendation, the programs of study available at the institution, and the objectives of the student, four-year colleges and universities can use any *or all* of the four categories used in the *Guide*, namely the vocational certificate category, the lower-division baccalaureate/associate degree category, the upper-division baccalaureate category, and the graduate degree category. Please read "Categories of Credit," p. A-7, of the 1980 edition of the *Guide to the Evaluation of Educational Experiences in the Armed Services.*

31

We have received from a military service school a transcript listing semester credits and carrying the statement that the school is accredited by one of the six regional accrediting associations. How do we handle this? At this time we know of no military schools that are accredited above the certificate level other than the following: Community College of the Air Force, which is accredited at the two-year community college level, Army Command and Staff College at Fort Leavenworth, Kansas, which is accredited to grant an M.A. degree, Armed Forces Institute of Technology at Wright-Patterson Air Force Base, which is accredited through the doctoral level and of course, the Service Academies.

We recommend that you handle the certificate level credit listings in accordance with your institutional policy regarding certificate level credit.

32

I understand that basic training was recently evaluated. What happened to OECC's former statement on basic and recruit training, and where do I find the new credit

recommendations? We did conduct on-site evaluations of the basic training offered for both men and women by the Army, Coast Guard, Marine Corps, and Navy. We believe that the differences in the missions of the services had not been sufficiently addressed by our earlier policies and believed that the differences in training for males and females also were not reflected. Consequently, you will find our credit recommendations in the Course Exhibits section of each volume of the *Guide;* look under "basic" or "recruit" in each Keyword Index to find the course exhibit number.

Additional questions and answers about using the Guide *and the recommendations appear in the* OECC Newsletter. *If you are not already receiving the newsletter, write to the Editor,* OECC Newsletter, *Office on Educational Credit and Credentials, American Council on Education, One Dupont Circle, Washington, D.C. 20036.*

Transfer and Award of Credit

This statement was developed by the three national associations whose member institutions are directly involved in the transfer and award of academic credit—the American Association of Collegiate Registrars and Admissions Officers, the American Council on Education, and the Council on Postsecondary Accreditation. The need for such a statement came from an awareness of the growing complexity of transfer policies and practices, which have been brought about, in part, by the changing contours of postsecondary education. With increasing frequency, students are pursuing their education in a variety of institutional and extra-institutional settings. Social equity and the intelligent use of resources requires that validated learning be recognized wherever it takes place.

The statement is intended to serve as a guide to institutions in the development or review of policies dealing with transfer and award of credit. It is under periodic review by the three associations and reactions would, of course, be welcome. Comments may be directed to Henry Spille, Director of the Office on Educational Credit and Credentials, ACE.

J. W. Peltason, President

This statement is directed to institutions of postsecondary education and others concerned with the transfer of academic credit among institutions and award of academic credit for extra-institutional learning. Basic to this statement is the principle that each institution is responsible for determining its own policies and practices with regard to the transfer and award of credit. Institutions are encouraged to review their policies and practices periodically to assure that they accomplish the institution's objectives and that they function in a manner that is fair and equitable to students. Any statements, this one or others referred to, should be used as guides, not as substitutes, for institutional policies and practices.

Transfer of credit is a concept that now involves transfer between dissimilar institutions and curricula and recognition of extra-institutional learning, as well as transfer between institutions and curricula of similar characteristics. As their personal circumstances and educational objectives change, students seek to have their learning, wherever and however attained, recognized by institutions where they enroll for further study. It is important for reasons of social equity and educational effectiveness, as well as the wise use of resources, for all institutions to develop reasonable and definitive policies and procedures for acceptance of transfer credit. Such policies and procedures should provide maximum consideration for the individual student who has changed institutions or objectives. It is the receiving institution's responsibility to provide reasonable and definitive policies and procedures for determining a student's knowledge in required subject areas. All institutions have a responsibility to furnish transcripts and other documents necessary for a receiving institution to judge the quality and quantity of the work. Institutions also have a responsibility to advise the students that the work **reflected** on the transcript **may or may not** be accepted by a receiving institution.

INTERINSTITUTIONAL TRANSFER OF CREDIT

Transfer of credit from one institution to another involves at least three considerations:

(1) the educational quality of the institution from which the student transfers;

(2) the comparability of the nature, content, and level of credit earned to that offered by the receiving institution; and

(3) the appropriateness and applicability of the credit earned to the programs offered by the receiving institution, in light of the student's educational goals.

Accredited Institutions

Accreditation speaks primarily to the first of these considerations, serving as the basic indicator that an institution meets certain minimum standards. Users of accreditation are urged to give careful attention to the accreditation conferred by accrediting bodies recognized by the Council on Postsecondary Accreditation (COPA). COPA has a formal process of recognition which requires that any accrediting body so recognized must meet the same standards. Under these standards, COPA has recognized a number of accrediting bodies, including:

(1) regional accrediting commissions (which historically accredited the more traditional colleges and universities but which now accredit proprietary, vocational-technical, and single-purpose institutions as well);

(2) national accrediting bodies that accredit various kinds of specialized institutions; and

(3) certain professional organizations that accredit free-standing professional schools, in addition to programs within multi-purpose institutions. (COPA annually publishes a list of recognized accrediting bodies, as well as a directory of institutions accredited by these organizations.)

Although accrediting agencies vary in the ways they are organized and in their statements of scope and mission, all accrediting bodies that meet COPA's standards for recognition function to assure that the institutions or programs they accredit have met generally accepted minimum standards for accreditation.

Accreditation affords reason for confidence in an institution's or a program's purposes, in the appropriateness of its resources and plans for carrying out these purposes, and in its effectiveness in accomplishing its goals, insofar as these things can be judged. Accreditation speaks to the probability, but does not guarantee, that students have met acceptable standards of educational accomplishment.

Comparability and Applicability

Comparability of the nature, content, and level of transfer credit and the appropriateness and applicability of the credit earned to programs offered by the receiving institution are as important in the evaluation process as the accreditation status of the institution at which the transfer credit was awarded. Since accreditation does not address these questions, this information must be obtained from catalogues and other materials and from direct contact between knowlegeable and experienced faculty and staff at both the receiving and sending institutions. When such considerations as comparability and appropriateness of credit are satisfied, however, the receiving institution should have reasonable confidence that students from accredited institutions are qualified to undertake the receiving institution's educational program.

Admissions and Degree Purposes

At some institutions there may be differences between the acceptance of credit for admission purposes and the applicability of credit for degree purposes. A receiving institution may accept previous work, place a credit value on it, and enter it on the transcript. However, that previous work, because of its nature and not its inherent quality, may be determined to have no applicability to a specific degree to be pursued by the student.

Institutions have a responsibility to make this distinction, and its implications, clear to students before they decide to enroll. This should be a matter of full disclosure, with the best interests of the student in mind. Institutions also should make every reasonable effort to reduce the gap between credits accepted and credits applied toward an educational credential.

Unaccredited Institutions

Institutions of postsecondary education that are not accredited by COPA-recognized accrediting bodies may lack that status for reasons unrelated to questions of quality. Such institutions, however, cannot provide a reliable, third-party assurance that they meet or exceed minimum standards. That being the case, students transferring from such institutions may encounter special problems in gaining acceptance and transferring credits to accredited institutions. Institutions admitting students from unaccredited institutions should take special steps to validate credits previously earned.

Foreign Institutions

In most cases, foreign institutions are chartered and authorized by their national governments, usually through a ministry of education. Although this provides for a standardization within a country, it does not produce useful information about comparability from one country to another. No other nation has a system comparable to voluntary accreditation. The Division of Higher Education of the United Nations Educational, Scientific, and Cultural Organization (UNESCO) is engaged in a project to develop international compacts for the acceptance of educational credentials. At the operational level, four organizations—the Council on International Educational Exchange (CIEE), the National Council on the Evaluation of Foreign Student Credentials (CEC), the National Association for Foreign Student Admissions (NAFA), and the National Liaison Committee on Foreign Student Admissions (NLC)—often can assist institutions by distributing general guidelines on admission and placement of foreign students. Equivalency or placement recommendations are to be evaluated in terms of the programs and policies of the individual receiving institution.

VALIDATION OF EXTRA-INSTITUTIONAL AND EXPERIENTIAL LEARNING FOR TRANSFER PURPOSES

Transfer-of-credit policies should encompass educational accomplishment attained in extra-institutional settings as well as at accredited postsecondary institutions. In deciding on the award of credit for extra-institutional learning, institutions will find the services of the American Council on Education's Office of Educational Credit helpful. One of the Office's functions is to operate and foster programs to determine credit equivalencies for various modes of extra-institutional learning. The Office maintains evaluation programs for formally structured courses offered by the military, and civilian noncollegiate sponsors such as business, corporations, government agencies, and labor unions. Evaluation services are also available for examination programs, for occupations with validated job proficiency evaluation systems, and for correspondence courses offered by schools accredited by the National Home Study Council. The results are published in a Guide series. Another resource is the General Education Development (GED) Testing Program, which provides a means for assessing high school equivalency.

For learning that has not been validated through the ACE formal credit recommendations process or through credit-by-examination programs, institutions are urged to explore the Council for Advancement of Experiential Learning (CAEL) procedures and processes. Pertinent CAEL publications designed for this purpose are also listed.

USES OF THIS STATEMENT

This statement has been endorsed by the three national associations most concerned with practices in the area of transfer and award of credit—the American Association of Collegiate Registrars and Admissions Officers, the American Council on Education/Commission on Educational Credit, and the Council on Postsecondary Accreditation.

Institutions are encouraged to use this statement as a basis for discussions in developing or reviewing institutional policies with regard to transfer. If the statement reflects an institution's policies, that institution might want to use this publication to inform faculty, staff, and students.

It is recommended that accrediting bodies reflect the essential precepts of this statement in their criteria.

Approved by the COPA Board
October 10, 1978

Approved by the American Council on Education/
Commission on Educational Credit
December 5, 1978

Approved by the Executive Committee, American Association of Collegiate Registrars and Admissions Officers
November 21, 1978

Course Exhibits

AR

AR-0101-0001

DOD Pest Management

Course Number: None.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2-3 weeks (89-136 hours).

Exhibit Dates: 10/77-Present.

Objectives: To prepare individuals in general and special pest management.

Instruction: Lectures and practical exercises in pest management including fertilization programs, classification and mode of action herbicides, biology and control of weeds, and natural resources conservation programs. Students completing the course are eligible to take the certification examination in their specialized area of pest control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in agricultural pest management; for those students completing the herbicide certification, an additional 1 credit in herbicide management; for those completing the pest management certification, an additional 3 credits in agricultural pest management (8/79).

AR-0102-0001

Army Medical Department (AMEDD) Officer Orientation (VC)

Course Number: 6-8-C21(VC).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 6 weeks (234 hours).

Exhibit Dates: 2/79-Present.

Objectives: To provide veterinary officers with the necessary skills and techniques to supervise subordinate personnel in the performance of all military veterinary activities.

Instruction: Conferences and practical exercises in general administration; meat and waterfood technology, including inspection of meats; dairy and poultry science, including inspection, identification, and evaluation of milk products; surveillance inspections; preventative veterinary medicine; and sanitation.

Credit Recommendation: In the graduate degree category, 4 semester hours in general administration, 4 in the field of veterinary science (8/79).

AR-0102-0002

Veterinary Specialist

Course Number: 321-91T20.

Location: Walter Reed Institute of Research, Washington, DC.

Length: 8 weeks (290-302 hours).

Exhibit Dates: 3/67-Present.

Objectives: To provide enlisted personnel with a general and working knowledge of the basic principles and techniques of animal care, management, and treatment, to enable them to assist the veterinary officer.

Instruction: Lectures and clinical practicum in laboratory procedures; anatomy and physiology; veterinary pathology; diseases of the systems; handling, care and treatment of animals; surgical procedures; and veterinary diseases.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in basic veterinary science and 2 in clinical practicum (6/75).

AR-0102-0003

Installation Veterinary Activities

Course Number: 6G-F3; 321-F4.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (80 hours).

Exhibit Dates: 5/77-Present.

Objectives: To provide selected Veterinary Corps officers and enlisted personnel with standardized training to perform or supervise tasks involved in providing installation veterinary service support.

Instruction: Lectures and practical exercises in administration, meat and waterfood technology and quality assurance, surveillance inspections and veterinary preventative medicine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in administration, 1 in food technology, 1 in inspection procedures, 1 in veterinary preventative medicine (8/79).

Related Occupation Codes: 91R.

AR-0102-0004

Veterinary Officer Statistics and Epidemiology

Course Number: 6G-F1.

Location: Academy of Health Sciences, Ft Sam Houston, TX.

Length: 3 weeks (126 hours).

Exhibit Dates: 4/78-Present.

Objectives: To enable veterinary officers to perform statistical analysis, design experiments and analyze epidemiological data to the degree that they can present and interpret epidemiological problems.

Instruction: Instruction and practical exercises in statistics, including probability, distribution, limit theorem and sampling, hypothesis testing, analysis of variance, regressive and Chi theorem and nonparamedic statistics. Principles of epidemiology are also discussed including data interpretation, strategies, variances, investigative techniques and experimental design.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in statistics, 3 in epidemiology (8/79).

AR-0104-0001

1. Veterinary Specialist
2. Food Inspection Procedures (Advanced)
3. Food Inspection Advanced

Course Number: *Version 1:* 321-91R20. *Version 2:* 321-91R20; 8-R-934.2. *Version 3:* 8-E-37.

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Medical Department Veterinary School, Chicago, IL. *Version 3:* Medical Department Veterinary School, Chicago, IL.

Length: *Version 1:* 10 weeks (340 hours). *Version 2:* 10-16 weeks (440-704 hours). *Version 3:* 24 weeks (1056 hours).

Exhibit Dates: *Version 1:* 4/76-Present. *Version 2:* 3/58-3/76. *Version 3:* 2/56-2/58.

Objectives: To provide food inspection specialists with a working knowledge of advanced procedures and techniques of food hygiene, safety and quality assurance inspections.

Instruction: Lectures and practical exercises in procedures and techniques of food inspection, including applied chemistry and microbiology; processing, handling, and inspecting dairy, poultry, and meat products; inspection of food storage and food processing facilities; detection, salvage, and decontamination of foods exposed to chemical, biological, or radiological contaminants.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 9 semester hours in food science, 6 in inspection procedures and regulations, 2 in veterinary preventive medicine (6/77). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in food science (2/74); in the upper-division baccalaureate category, 3 semester hours in meat and dairy hygiene, 3 in veterinary laboratory procedures (12/68). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours in food science (2/74); in the upper-division baccalaureate category, 3 semester hours in meat and dairy hygiene, 6 in veterinary laboratory procedures (12/68).

Related Occupation Codes: 91R.

AR-0104-0002

1. Veterinary Specialist Basic
2. Food Inspection Procedures Basic (Food Inspection)

Course Number: *Version 1:* 321-91R10. *Version 2:* 321-91R10; 8-E-2; 8-R-934.1.

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Medical Department Veterinary School (Medical Service Meat and Dairy Hygiene School), Chicago, IL; Medical Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 8 weeks (352 hours). *Version 2:* 8-10 weeks (275-440 hours).

Exhibit Dates: *Version 1:* 6/76-Present. *Version 2:* 2/56-5/76.

Objectives: To provide food handlers with the necessary skills to perform basic quality assurance inspection techniques.

Instruction: *Version 1:* Lectures and practical exercises in administration, food technology and inspection, and veterinary preventive medicine so that when given applicable documents, inspection equipment and raw materials for meat, dairy products, poultry and waterfood, students perform appropriate component, process or end item inspection; conduct surveillance inspections for a variety of fresh fruits and vegetables; perform product wholesomeness inspection and detect unsanitary conditions in food handling facilities. *Version 2:* Lectures and practical exercises in the fundamentals of food inspection techniques, including detection and reporting of sanitary defects, field and surveillance inspection, and contract administration.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administration, 4 in meat and waterfood technology, 3 in dairy and poultry science, 3 in food inspection techniques, 1 in veterinary preventive medicine (6/77). *Version 2:* In the vocational certificate category, 3 semester hours in food inspection (2/74).

Related Occupation Codes: 91R.

AR-0104-0003

Meat Plant Management

Course Number: 10-E-6.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (352 hours).

Exhibit Dates: 9/54–12/56.

Objectives: To train meat cutters and food handlers to supervise the operation of a central meat plant or field butchery unit.

Instruction: Lectures in the basic principles of meat plant management, including types, classes, and grades of fresh meat and poultry; meat processing; personnel management and supervision; and modern plant organization and administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in meat plant management (1/74); in the upper-division baccalaureate category, 3 semester hours in meat plant management (12/68).

AR-0104-0005

Veterinary Preventive Medicine and Food Inspection

Course Number: 6-G-3221.

Location: Medical Service Veterinary School, Chicago, IL.

Length: 8 weeks (364 hours).

Exhibit Dates: 7/67–12/68.

Objectives: To provide veterinarians with a working knowledge of applied food hygiene and technology.

Instruction: Lectures in the fundamentals of applied food hygiene and technology, including contract administration, surveillance inspection, and food procurement, storage, and shipment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/74).

AR-0104-0006

Veterinary Specialist (Basic) Reserve Component (Nonresident/Resident)

Course Number: 321-91R10(RC).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Resident 2 weeks (80–81 hours).

Exhibit Dates: 1/78–Present.

Objectives: To provide enlisted reserve personnel with skills to perform food hygiene, safety and quality assurance inspections under direction of a first line NCO/officer supervisor.

Instruction: Phase I has approximately 200 hours of instruction conducted at the unit level over a period of one year. Phase II consists of actual hands-on instruction and demonstrations covering meat and waterfowl technology, dairy and poultry sciences, surveillance inspections and veterinary preventive medicine.

Credit Recommendation: Pending evaluation.

AR-0104-0007

Animal Care Specialist

Course Number: 321-91T10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (313 hours).

Exhibit Dates: 12/79–Present.

Objectives: To train enlisted personnel as veterinary technicians

Instruction: Course includes basic sciences and diagnostic laboratory procedures, veterinary pathology and diseases, handling, care and management of animals.

Credit Recommendation: Pending evaluation

AR-0104-0008

1. Subsistence Officer
2. Subsistence Officer
3. Subsistence Officer
4. Subsistence Technology

Course Number: *Version 1:* 8D-4130. *Version 2:* 8D-4130. *Version 3:* 8D-4130; 10-G-4130. *Version 4:* 10-G-4130.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 13 weeks (452 hours). *Version 2:* 13 weeks (466 hours). *Version 3:* 18 weeks (642–660 hours). *Version 4:* 24 weeks (837–856 hours).

Exhibit Dates: *Version 1:* 1/74–Present. *Version 2:* 6/70–12/73. *Version 3:* 7/63–5/70. *Version 4:* 1/60–6/63.

Objectives: To provide commissioned officers with a working knowledge of policies, principles, standards, technology, techniques, and procedures involved in management of the subsistence commodity.

Instruction: *All Versions:* Lectures and practical exercises in food science, food packaging and packing, meat products, water foods, dairy products and eggs, fresh and processed fruits and vegetables, and general products. *Version 1:* Includes personnel and food supply management, food science, food packaging, and the characteristics of various food types. *Version 3:* Includes subsistence management, marketing, and procurement. *Version 4:* Includes subsistence management, marketing, and procurement.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in food service management (6/75). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in institutional food management, 4 in general business, and 2 in applied science (7/74). *Version 3:* In the upper-division baccalaureate category, 6 semester hours in institutional food management, 4 in business management, 3 in food marketing, and 2 in applied science (12/68). *Version 4:* In the upper-division baccalaureate category, 6 semester hours in institutional food management, 6 in business management, 3 in food marketing, 3 in food preparation, 2 in nutrition, and 2 in applied science (12/68).

AR-0301-0001

Accounting

Course Number: 14-O-21.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 17 weeks (600 hours).

Exhibit Dates: 8/56–6/57.

Objectives: To train finance officers in the principles of accounting.

Instruction: Lectures and practical exercises in the principles of accounting, including cost accounting, intermediate and advanced accounting, auditing theory, municipal and governmental accounting, and analysis of financial statements.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 14 semester hours in elementary through advanced accounting, 3 in cost accounting (7/74); in the upper-division baccalaureate category, 13 semester hours in elementary through advanced accounting, 5 in cost accounting (12/68).

AR-0301-0002

Cost Estimating for Engineers

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: 2 weeks (69 hours).

Exhibit Dates: 7/72–Present.

Objectives: To provide an understanding of cost estimating techniques and the analytical and statistical methods of predicting system costs.

Instruction: Lectures and practical exercises in the qualitative and quantitative techniques of cost estimating and analysis, and methods of developing cost estimates and evaluating uncertainties.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in cost analysis (12/73); in the graduate degree category, 1 semester hour in cost analysis (12/73).

AR-0317-0001

Operations Research/Systems Analysis Executive

Course Number: 5A-F4.

Location: *All Versions:* Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S.. *Version 2:* Management School, Ft. Belvoir, VA.

Length: *Version 1:* 4 weeks (159 hours). *Version 2:* 4–5 weeks (168–177 hours).

Exhibit Dates: *Version 1:* 1/73–Present. *Version 2:* 9/67–12/72.

Objectives: To train officers in operations research and systems analysis methodologies.

Instruction: *All Versions:* Lectures and practical exercises in operations research and systems analysis methodologies, including economic analysis, concepts of games and strategy, calculus and algebra, mathematical models, model construction and analysis, statistics, decision theory, linear programming, dynamic programming, measures of effectiveness, effectiveness analysis, queuing theory, and human factors. *Version 1:* Includes risk analysis, communications, linear algebra, mathematical programming and applications, input/output analysis, reliability theory, network analysis and theory, sequencing, probability concepts and applications, experimental design, forecasting and statistical application to logistics. *Version 2:* Includes basic elements of automatic data processing.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in operations research (8/74); in the graduate degree category, 3 semester hours in operations research (8/74). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in operations research in the field of computer science (8/74).

AR-0317-0002

Operations Research Models and Techniques

Course Number: 5A-F1.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 4 weeks (157 hours).

Exhibit Dates: 7/75–Present.

Objectives: To provide students with a working knowledge of, and an ability in, formulating and analyzing problems concerned with optimal allocation of resources, and to provide training in the use of probablistic methods for solving managerial, scientific and engineering problems involving random processes. Emphasis is on practical field applications.

Instruction: Course is concerned with development of mathematical and probablistic principles necessary to formulate and use operations research models. Topics include basic probability concepts, combinational analysis, distribution theory, generating function, birth and death processes, and statistical inference. Applications are made in the areas of sequential decisions processes, waiting lines, production processes, maintenance replacement, and competitive strategies. The application of mathematical programming techniques to the assignment problem, transportation problem, and network flow problems is made. Advanced mathematical concepts are described. Experience is gained in formulating problems for the computer.

Credit Recommendation: In the graduate degree category, 4 semester hours in operations research (11/76).

AR-0326-0001

Army Management
(Command Management)

Course Number: 900-G-F1; 400-O-2.

Location: Army Management School, Ft. Belvoir, VA; Command Management School, Ft. Belvoir, VA.

Length: 3 weeks (92–132 hours).

Exhibit Dates: 1/56–12/68.

Objectives: To train commissioned officers to manage military installations.

Instruction: Lectures and practical exercises in the management of a military installation. Course includes general management procedures, military management concerns, and executive practices.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in business organization and management (7/74).

AR-0326-0002

Quartermaster Commodity

Course Number: 10-O-38.

Location: Quartermaster School, Ft. Lee, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To provide commissioned officers with training in the nature and characteristics of the primary commodities procured, stored, and distributed by the Quartermaster Corps.

Instruction: Lectures and practical exercises in the nature and characteristics of the primary commodities procured, stored, and distributed by the Quartermaster Corps, including foods and food industries; petroleum products and industries; chemicals and allied chemical industries; textile and apparel industries; laundry and dry cleaning; leather and shoe industries; embalming, funerals, and other-nation customs; metal industries; quartermaster inspection service; forest products industries; and quartermaster research and development.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in institutional management introduction (7/74); in the upper-division baccalaureate category, credit in institutional management introduction on the basis of institutional evaluation (12/68).

AR-0326-0003

1. Associate Logistics Executive Development
2. Associate Logistics Executive Development
3. Associate Logistics Executive Development
4. Associate Army Logistics Management

Course Number: *Version 1:* 8A-F19. *Version 2:* 8A-F19. *Version 3:* 8A-F19. *Version 4:* 8A-F5.

Location: Logistics Management Center, Ft. Lee, VA.

Length: *Version 1:* 10 weeks (355 hours). *Version 2:* 10 weeks (350 hours). *Version 3:* 10 weeks (350 hours). *Version 4:* 8 weeks (284 hours).

Exhibit Dates: *Version 1:* 8/79–Present. *Version 2:* 12/76–7/79. *Version 3:* 12/70–11/76. *Version 4:* 10/67–11/70.

Objectives: To train officers in logistics management.

Instruction: *All Versions:* Lectures and practical exercises in logistics management, including management systems and development; inventory management; personnel management; financial management; statistical methods; maintenance management; logistical organization of the military; procurement; contract law, policies, and definitions; contract development and administration; depot operations management; containerization; distribution management; and maintenance economics. *Version 2:* Lecture conferences, cases, practical exercises, guest speakers, and field trips covering management principles, financial management, the acquisition process, assets management, economic and statistical principles, and logistics management. Note: Course is offered two weeks a year for five years. *Version 3:* Includes logistics planning, information systems, transportation services and disposal operations, mathematics, computer applications, systems analysis, international logistics, personnel support logistics, facilities management, and combat support operations. NOTE: Course is offered two weeks a year for five years. *Version 4:* Includes additional contract subjects and warehouse operations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 4 semester hours in general management, 4 in economic principles and decision making, and 6 in logistics management (12/76); in the graduate degree category, 3 semester hours in general management (12/76). *Version 3:* In the upper-division baccalaureate category, 6 semester hours in general management electives on the basis of institutional evaluation (8/74); in the graduate degree category, 3 semester hours in general management electives on the basis of institutional evaluation (8/74). *Version 4:* In the upper-division baccalaureate category, 6 semester hours in general management electives (8/74).

AR-0326-0004

1. Logistics Management Development
2. Army Integrated Materiel Systems Management
3. Army Integrated Materiel Systems Management

Course Number: 8A-F16.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: *Version 1:* 4 weeks (148 hours). *Version 2:* 6 weeks (223 hours). *Version 3:* 6 weeks (223–225 hours).

Exhibit Dates: *Version 1:* 9/75–Present. *Version 2:* 6/73–8/75. *Version 3:* 8/69–5/73.

Objectives: To provide military and civilian personnel with an overview of the Army wholesale logistics system and to develop their managerial skills.

Instruction: *Version 1:* Lectures, conferences, seminars, simulation exercises, and case studies. Topics include life-cycle material management, procurement, functional management of assets, information concepts for managers, management theory and decision making, quantitative techniques, working capital funds, and introduction to defense financial management. *Version 2:* Lectures and practical exercises in integrated materiel management systems and logistics management structures, including behavioral and management considerations, quantitative methods for economic analysis, management and systems engineering, automatic data processing systems and systems applications, financial management, procurement management, concept formation, contract definition and development, materiel lifecycle operations, and production and disposal. *Version 3:* Same as Version 2.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in basic materiel systems management (12/75). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in materiel systems management (8/74); in the graduate degree category, 2 semester hours in materiel systems management (8/74). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in principles of management (8/74).

AR-0326-0005

Maintenance Management

Course Number: *All Versions:* 8A-F3. *Version 4:* 400-I-F4.

Location: Logistics Management Center, Ft. Lee, VA; On-Site and Off-Campus Locations, Continental U.S..

Length: *Version 1:* 5 weeks (176 hours). *Version 2:* 6 weeks (228 hours). *Version 3:* 6 weeks (227–228 hours). *Version 4:* 8 weeks (320 hours).

Exhibit Dates: *Version 1:* 6/75–Present. *Version 2:* 7/72–5/75. *Version 3:* 10/65–6/72. *Version 4:* 10/57–9/65.

Objectives: To train officers and warrant officers in maintenance management techniques.

Instruction: Lectures and practical exercises in maintenance systems management, including management development, supply functions, maintenance control, communications skills, human relations, programming and financial management, maintenance organization and policies, reporting, repair parts management, and production management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in production management (12/75). *Version 2:* In the vocational certificate category, 3 semester hours in production management (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in production management (8/74); in the upper-division baccalaureate category, 3 semester hours in production management (12/73); in the graduate degree category, 2 semester hours in production management (12/73). *Version 3:* In the vocational certificate category, 3 semester hours in maintenance management (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management (8/74); in the upper-division baccalaureate category, 3 semester hours in maintenance management (12/68). *Version 4:* In the upper-division baccalaureate category, 3 semester hours in maintenance management (12/68).

Related Occupation Codes: 421A; 441A; 630A; 631A; 632A; 310A; 521A; 621A; 214E; 241F; 214G; 222B; 251B; 223B; 223D; 251D; 224B; 500A; 561B; 561C; 561D; 561E; 510A; 562B; 562C; 562D; 562E.

AR-0326-0006

Defense Advanced Inventory Management

Course Number: 8B-F12.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 5 weeks (188 hours).

Exhibit Dates: *Version 1:* 7/72–Present. *Version 2:* 10/67–6/72.

Objectives: To train inventory management officers in advanced inventory management.

Instruction: *All Versions:* Lectures and practical exercises in inventory management, including management relationships and philosophy, management of human resources, financial management and controls, management control techniques, inventory management, computer-assisted logistics management, and interface with procurement and maintenance. *Version 1:* Includes performance measurement for management control and computer-assisted industrial management. *Version 2:* Includes international logistics.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in inventory management (8/74); in the graduate degree category, 2 semester hours in inventory management (8/74). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in inventory management (8/74).

AR-0326-0007

Logistics Support Design Management

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 5 weeks (263 hours).

Exhibit Dates: 7/72–6/75.

Objectives: To train officers to apply integrated logistics support management and system engineering techniques in all life-cycle phases.

Instruction: Lectures and practical exercises in the application of integrated logistics support management and system engineering techniques in all life-cycle phases, including new-item or system field actions and support, support and engineering interrelationships, mathematics and simulation support requirements, trade-off determinations and analyses, maintenance support planning, maintenance engineering analysis, and analytical techniques.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in industrial management (8/74); in the graduate degree category, 2 semester hours in industrial management (8/74).

AR-0326-0008

1. Army Depot Operations Management
2. Defense Depot Operations Management
3. Defense Depot Operations Management

Course Number: *Version 1:* 8B-F10. *Version 2:* 8B-F10. *Version 3:* 8B-F10A.

Location: Logistics Management Center, Ft. Lee, VA; On-Site and Off-Campus Locations, Continental U.S..

Length: *Version 1:* 5 weeks (194 hours). *Version 2:* 6 weeks (229 hours). *Version 3:* 6 weeks (218 hours).

Exhibit Dates: *Version 1:* 5/75–Present. *Version 2:* 7/72–4/75. *Version 3:* 10/67–6/72.

Objectives: To train officers and civilian personnel in depot directorate-level management.

Instruction: *Version 1:* Lecture-conferences, guest speakers, computer-assisted simulations, workshop, cases and field trip. Topics include depot operations management, general management and practices, automated logistics simulation, and procurement, maintenance, and disposal management. *Version 2:* Lectures and practical exercises in depot management, including management philosophy, management of human resources, scientific management and controls, financial management, computer-assisted simulations, automatic data processing systems, procurement management, property disposal management, maintenance management, transportation and traffic management, inventory, international logistics, distribution systems, receipt, storage, material handling, quality control, packaging, shipping, and installation management. *Version 3:* Same as Version 2 except does not include transportation and traffic management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in supply depot management. *Version 2:* In the upper-division baccalaureate category, 6 semester hours in management of physical distribution (8/74); in the graduate degree category, 3 semester hours in management of physical distribution (8/74). *Version 3:* In the upper-division baccalaureate category, 4 semester hours in supply management (8/74).

Related Occupation Codes: 761A; 726A.

AR-0326-0009

1. Management of Defense Acquisition Contracts
   (Defense Procurement Management)
2. Defense Procurement Management
   (Defense Basic Procurement)
   (Armed Services Procurement Management)
3. Procurement Management

Course Number: *All Versions:* 8D-4310; 8D-4320. *Version 3:* 400-1-4320.

Location: Logistics Management Center, Ft. Lee, VA; On-Site and Off-Campus Locations, Continental U.S..

Length: *Version 1:* 4 weeks (153–155 hours). *Version 2:* 5–6 weeks (184–200 hours). *Version 3:* 8 weeks (240 hours).

Exhibit Dates: *Version 1:* 2/71–Present. *Version 2:* 7/62–1/71. *Version 3:* 9/56–6/62.

Objectives: To train officers in procurement management.

Instruction: *All Versions:* Lectures and practical exercises in procurement management, including statutes, regulations, and policies; budgets and funds; specifications and allocations; potential contractors; small business and labor surplus programs; elements of a contract; government roles in contracts; purchase by advertisement; negotiation; cost and price analysis; contract types and purposes; clauses and provisions; taxes and other financial considerations; coordinated procurement; contract administration and modifications; quality control; termination of contracts; labor problems; and appeals. *Version 1:* Includes construction procurement and foreign purchases.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in procurement management (8/74); in the graduate degree category, 2 semester hours in procurement management (8/74). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in purchasing or procurement (8/74). *Version 3:* In the upper-division baccalaureate category, 6 semester hours in purchasing or procurement (8/74).

Related Occupation Codes: 761A; 762A.

AR-0326-0010

Management of Acquisition Contracts Advanced
(Defense Advanced Procurement Management)

Course Number: 8D-F12.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: *Version 1:* 3 weeks (105 hours). *Version 2:* 3 weeks (115 hours).

Exhibit Dates: *Version 1:* 6/73–Present. *Version 2:* 1/64–5/73.

Objectives: To train procurement management officers in advanced procurement management.

Instruction: *All Versions:* Lectures and practical exercises in procurement management, including procurement planning, funding, technical requirement impact; small business, labor surplus and disaster area relief operations; procurement by formal advertising and negotiation; contract types and purposes; cost and price analysis; contract administration; terminations and remedies; patents and data; and procurement trends. *Version 2:* Includes industrial readiness planning, coordinated procurement, and control services.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in procurement management (8/74); in the graduate degree category, 1 semester hour in procurement management (8/74). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in procurement management (8/74).

AR-0326-0011

Planning and Conducting Management Audits and Studies

Course Number: 7A-F53.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 9/76–Present.

Objectives: To provide students with the capability to plan and conduct management audits and studies so that they can analyze and solve management problems and improve the utilization of resources.

Instruction: Covers management audits and studies; styles of studies and audits; planning the management study; study initiation and problem analysis; developing problem alternatives and solutions; preparing recommendations and reports; measuring management performance; modern styles of analytical approach planning and conducting of studies; and the future of management.

Credit Recommendation: In the graduate degree category, 3 semester hours in management controls (11/76).

AR-0326-0012

Decision Risk Analysis

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: 2 weeks (78 hours).

Exhibit Dates: 7/72–Present.

Objectives: To provide a basic understanding of the concepts and techniques of decision risk analysis for the design, analysis, and control of large-scale military programs.

Instruction: Lectures and practical exercises in the theory and application of qualitative and quantitative techniques of decision risk analysis.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in risk analysis (12/73); in the graduate degree category, 1 semester hour in risk analysis (12/73).

AR-0326-0013

Decision Risk Analysis for Logisticians

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: 2 weeks (78 hours).

Exhibit Dates: 7/72–Present.

Objectives: To provide a basic understanding of concepts and techniques of decision risk analysis as applied to logistics problems.

Instruction: Lectures and practical exercises in analysis techniques in logistics problems; application of analysis techniques; and case studies of actual problems in such logistics areas as requirements, procurement, distribution, and disposal.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in decision risk analysis (12/73); in the graduate degree category, 1 semester hour in decision risk analysis (12/73).

AR-0326-0014

Advanced Decision Risk Analysis

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: 1–2 weeks (72 hours).

Exhibit Dates: 7/72–Present.

Objectives: To provide knowledge of advanced methods and techniques of decision-risk analysis.

Instruction: Lectures' and practical exercises in decision analysis and risk analysis, including application of Bayes' Theorem to update distributions, measures of effectiveness and Markov processes, decision analysis using decision trees and computer models, advanced cost and schedule modeling, multiattribute decision techniques and critical review of studies and analyses.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in advanced risk analysis (12/75); in the graduate degree category, 1 semester hour in advanced risk analysis (12/75).

AR-0326-0015

Modern Analytic Techniques for Executive Decision Making

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 3 weeks (93 hours).

Exhibit Dates: 10/68–12/71.

Objectives: To provide personnel with the basic knowledge of modern analytic techniques that are amenable to the decision-making process within the U.S. Army Materiel Command.

Instruction: Instruction includes overview of mathematics, statistics, and economic analysis; regression and forecasting techniques; design of experiments and hypotheses testing; simulation, behavioral, probability, replacement, and network models, mathematical and dynamic programming; industrial dynamics; game and information theory; and gaming.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in quantitative methods (8/74).

AR-0326-0016

1. Army Medical Department Officer Advanced
   (AMEDD Officer Advanced)
2. Army Medical Department Officer Advanced (AMEDD)-Army Nurse Corps Officers
   (Army Medical Service Officer Advanced)
   (Army Medical Service Officer Career)
3. Army Medical Service Officer Career
4. Army Medical Service Officer Career
   (Army Medical Service Officer Advanced)
5. Army Medical Service Officer Advanced

Course Number: *Version 1:* 6-8-C22. *Version 2:* 6-8-C22; 8-A-C22. *Version 3:* 8-A-C22. *Version 4:* 8-A-C22. *Version 5:* 8-A-C4.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 22–23 weeks (766–796 hours). *Version 2:* 21–23 weeks (646–785 hours). *Version 3:* 33 weeks (1023 hours). *Version 4:* 21–22 weeks (662–739 hours). *Version 5:* 34 weeks (1031–1341 hours).

Exhibit Dates: *Version 1:* 10/71–Present. *Version 2:* 7/65–9/71. *Version 3:* 7/62–6/65. *Version 4:* 7/56–6/62. *Version 5:* 7/54–6/56.

Objectives: To provide Nurse Corps and Medical Department officers with knowledge of management principles, tools, and techniques required to function as administrative officers.

Instruction: Classroom and practical instruction in principles of management; organization and control; planning, purchasing, and scheduling; electronic data processing; communications; and various military-related topics.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in principles of management (7/74). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in business organization and management (7/74). *Version 3:* In the upper-division baccalaureate category, 9 semester hours in business organization and management (7/74). *Version 4:* In the upper-division baccalaureate category, 6 semester hours in business organization and management (7/74). *Version 5:* In the upper-division baccalaureate category, 9 semester hours in business organization and management (7/74).

AR-0326-0017

Army Materiel Command Installation Management

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 3 weeks (114 hours).

Exhibit Dates: 9/75–Present.

Objectives: To improve management effectiveness within Army Materiel Command installations by providing military and civilian managers with a knowledge of techniques and skills required for the solution of contemporary management problems.

Instruction: Lecture-conference sessions, case studies, workshops, and guest speakers to examine organizational structures and areas of management responsibility within an Army Materiel Command installation. Topics include command relationships, personnel management, labor relations, nonappropriated fund activities, ecology and abatement control, management of real property and family housing, comptroller activities, Army Industrial Fund, and management information systems.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in general management (12/75).

AR-0326-0018

Integrated Logistics Support and Materiel Acquisition (ILS-R)

(Materiel Acquisition and Integrated Logistics Support Design Management (LSDM))

Course Number: 8A-F21.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 4 weeks (153 hours).

Exhibit Dates: 7/75–Present.

Objectives: To train officers and civilian personnel to apply integrated logistics support management and analytical systems engineering techniques to the materiel acquisition process and support systems.

Instruction: Lecture-conferences and practical exercises. Topics include concepts and techniques of materiel acquisition and life cycle management; logistics support analysis; economic analysis; and support/design engineering analysis and trade-off determinations.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in materiel acquisition process and support systems (12/75); in the graduate degree category, 2 semester hours in materiel acquisition process and support systems (12/75).

AR-0326-0019

Integrated Logistics Support Management Techniques in Materiel Acquisition (ILS-MGT)

(Management Techniques in Materiel Acquisition and Integrated Logistics Support Design Management (LSDM-MGT))

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (74–76 hours).

Exhibit Dates: 9/75–Present.

Objectives: To train management-level officers and civilian personnel in the application of integrated logistics support managerial techniques for planning acquisition strategy of military materiel.

Instruction: Lecture-conferences, practical exercises, and case discussions. Topics include policies, procedures, and concepts of materiel acquisitions and project management, logistic support analysis, and limited quantitative techniques.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in materiel acquisition process and support systems (12/75); in the graduate degree category, 1 semester hour in materiel acquisition process and support systems (12/75).

AR-0326-0020

LOGISTICS SUPPORT ANALYSIS TECHNIQUES IN MATERIEL ACQUISITION (LSAT)
(Quantitative Techniques in Materiel Acquisition and Integrated Logistics Support Design Management (LSD-Quant))

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 10/75–Present.

Objectives: To train officers and civilian personnel in the concepts and quantitative techniques employed by the system engineer and logistics planner in the application of integrated logistics support.

Instruction: Lecture-conferences, practical exercises, and computer simulations in the application of integrated logistics support management. Topics include concepts, principles, and policies of materiel acquisition and logistics management; quantitative techniques in materiel acquisition and integrated logistics support; analytical techniques related to decision making and cost effectiveness; and trade-off determinations using logistic parameters.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in materiel acquisition process and support systems (12/75); in the graduate degree category, 1 semester hour in materiel acquisition process and support systems (12/75).

AR-0326-0021

ECONOMIC ANALYSIS FOR DECISION MAKING

Course Number: 7A-F10.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 9/72–Present.

Objectives: To provide the concepts and economics analysis techniques for evaluating cost impacts on an organization prior to final management decisions.

Instruction: Lecture, conferences, practical exercises, programmed instruction, and case study to include management and decision making, cost estimating techniques, time value money, basic methods for comparison of alternatives, equipment replacement, regulating policies, and cost-benefit analysis.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in financial management (11/76).

AR-0326-0022

DIMES ANALYST BASIC (WORK METHODS AND STANDARDS)

Course Number: 7A-F19.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: *Version 1:* 5 weeks (197 hours). *Version 2:* 5-8 weeks (200–317 hours).

Exhibit Dates: *Version 1:* 7/74–Present. *Version 2:* 5/64–6/74.

Objectives: To develop skills necessary to analyze and design work methods and procedures, establish engineered and non-engineered work measurement standards, and design and use a work measurement hierarchical structure that will support the information needs of the management processes of budgeting, manpower control and work planning and control.

Instruction: Thorough grounding is provided in the various techniques employed in methods improvement and work measurement. Topics include cost analysis, job enrichment, human relations, human factors engineering, value engineering, work sampling, process analysis, operations analysis and multi-activity analysis. Lecture and practical exercise activity in analyzing, designing, developing and presenting improved methods for the flow of work, man activities, and man-machine and crew activities. In work measurement, instruction is directed to developing skills in engineered standards via direct-time study, rated-work sampling, standard and predetermined time systems.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in time and motion theory, production management techniques and systems, or work measurements and methods (11/76). (7/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in work measurement (7/74); in the upper-division baccalaureate category, 2 semester hours in work measurement and 1 in principles of management (7/74).

AR-0326-0023

DEFENSE IN-PLANT QUALITY ASSURANCE

Course Number: 8D-F34.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 7/75–Present.

Objectives: To provide an understanding of the principles of industrial quality systems; government requirements related to such systems; and the principles of governing quality assurance activities relating to individual systems.

Instruction: Course covers objectives of defense in-plant quality assurance and planning; contract review; review and appraisal of contractor's quality plan; audit of contractor's quality-related operations; validation of contractor's quality plan and operations; and government acceptance inspection.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in procurement quality control (11/76).

AR-0326-0024

ADMINISTRATIVE SYSTEMS ANALYSIS AND DESIGN

Course Number: 7A-F18.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 1/66–Present.

Objectives: To provide students with the principles and techniques employed in analyzing, evaluating, improving, and designing effective administrative systems to support management policy and decision making.

Instruction: Lecture conferences and group and individual practical exercises to cover an introduction to administrative systems, systems analysis, flow charting (procedures), forms and report analysis and design, various automated systems, planning for systems, role of manager and analyst, and a major analysis and design project of a current management problem.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business systems management (11/76).

AR-0326-0025

PROJECT PLANNING AND CONTROL TECHNIQUES

Course Number: 5L-F1.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 5/62–Present.

Objectives: To provide knowledge and develop skills in selecting and applying techniques for planning and controlling projects.

Instruction: Practical exercises, group projects and computer simulations are used in addition to lecture presentations to provide the student with a systematic approach to planning and controlling the cost, schedule, and technical performance of medium-to-large-sized projects. Techniques include network-based management techniques such as PERT and CPM, work breakdown structures, requirements determination, cost estimating, economic analysis, risk analysis long-range and detail cost, schedule and technical performance planning, design impact on cost, configuration management, data and systems management, and technical performance management.

Credit Recommendation: In the graduate degree category, 3 semester hours in industrial and systems engineering management or program and project management (11/76).

AR-0326-0026

ENGINEERED PERFORMANCE STANDARDS (EPS) FOR FACILITIES ENGINEERING ESTIMATORS

Course Number: AMETA-11.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 7/74–Present.

Objectives: To provide a working knowledge of engineered performance standards for planning and estimating work relative to facilities engineering.

Instruction: Thorough development of skill in application of standard data for real-property maintenance applications. Covers the fundamentals of general data available in the areas of job preparation, craft allowance and travel time, fundamentals of craft data, job phasing, data presentation, and the procedures for applying engineering standards using job planning sheets and monographs.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in public works administration (11/76).

AR-0326-0027

HUMAN BEHAVIOR IN ORGANIZATIONS

Course Number: 7C-F7.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 10/76–Present.

Objectives: Course is designed to provide an understanding and working knowledge of the principles and applications of the behavioral sciences in order to increase individual achievement and group performance in organizational settings.

Instruction: Provides for a behavioral approach to management; coverage of traditional theories of behavior in organizations; the role of communications; individual behavior and increasing individual effectiveness; organizational behavior, communication programs, and development; process consultation; and a synthesis of theory of the behavioral sciences and management.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in organizational behavior (11/76).

AR-0326-0028

Managing with Contractor Performance Measurement Data

Course Number: AMETA-14.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 9/70–Present.

Objectives: To provide skills necessary to effectively obtain, analyze, and use performance measurement data in the management of the material-acquisition process for weapon-equipment systems.

Instruction: Lecture and case study method is utilized to explain the need for cost, schedule, and technical performance measurement. Experience in the selection, acquisition, and use of performance measurement data is provided. Emphasis is on the validation, full-scale development, and production phases of the material-acquisition, life-cycle processes which are project or product managed.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in procurement management (11/76).

AR-0326-0029

Management of Managers

Course Number: 7A-F38.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 9/75–Present.

Objectives: To assist in the development of practicing managers at the intermediate or upper level of responsibility.

Instruction: Course covers management behavior, various management systems, skill development (i.e., team building, interviewing, counseling) and consideration of principles, philosophies, and ethical values to broaden the scope and growth of the administrator. Methods include lectures, discussion, case studies, simulation, role playing, and laboratory activities.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in practices and philosophies of management (11/76).

AR-0326-0030

Organization Planning

Course Number: 7A-F8.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 1/66–Present.

Objectives: To provide students with a knowledge of the practical concepts, principles, and techniques of systematic organization planning and design.

Instruction: Course covers fundamentals of organizational planning; impact of behavioral sciences; organization guidelines and departmentalization; staff and special considerations; and future organizational considerations.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in organization planning (11/76).

AR-0326-0031

Principles and Applications of Value Engineering

Course Number: 8D-F27.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 12/64–Present.

Objectives: To provide students with a working knowledge of the principles and techniques of value engineering and their application to current engineering projects.

Instruction: Lecture-conferences, practical exercises and group projects to include description of value engineering methodology, application in the design process considering life-cycle effects, uses of cost estimating, analytical techniques and standards and description of contractual provisions for use of value engineering. Emphasis is on class study and case studies in which value engineering methodology is applied to current and real projects.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in procurement management (11/76).

AR-0326-0032

Defense Work Measurement Standard Time Data (DWMSTD)

Course Number: 7A-F17.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 7/75–Present.

Objectives: To provide students with a working knowledge of the defense work measurement standard time data program and the latest techniques of work measurement for use in the development of standard time data.

Instruction: Emphasis is on uniform application of the standard time data elements included in the DWMSTD program. Topics include coding structures, source and location of various levels of data and selection of universal and occupation-related data. Emphasis is on application of the data in developing labor performance data through utilization of standard time data.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in time study, work measurement, time and motion study, or standard time (11/76).

AR-0326-0033

Systems Engineering

Course Number: AMETA-15.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (76 hours).

Exhibit Dates: 7/70–Present.

Objectives: To provide students with a working knowledge of systems engineering theory, procedures, and managerial practices. Emphasis is on using the system engineering process as a methodical, analytical approach to the development of total systems; and examining the functions of systems engineering management.

Instruction: Practical exercises and lectures to include the systems engineering process, functional analysis, synthesis, evaluation and decision, system description, systems engineering management and relationships, system engineering in the request for proposal and evaluating system engineering management plans.

Credit Recommendation: In the graduate degree category, 3 semester hours in systems development management (11/76).

AR-0326-0034

Technical Data Package Development/Preparation

Course Number: AMETA-13.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 7/71–Present.

Objectives: To provide students with a working knowledge of the requirements and responsibilities for the development and preparation of technical data packages used for procurement and production of military design equipment.

Instruction: Lecture-conferences, individual and team practical exercises, and case studies covering current practices in technical data package, acquisition and preparation of technical data package, quality assurance provisions, and review, proofing, maintenance, improvement, and transmission of the technical data package.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in procurement management—quality assurance (11/76).

AR-0326-0035

Product/Production Engineering Intern Program

Course Number: None.

Location: DARCOM Intern Training Center, Red River Depot, Texarkana, TX.

Length: 52 weeks (1,890 hours).

Exhibit Dates: 7/75–Present.

Objectives: To provide comprehensive training in disciplines required for enhancing the producibility and production of components designed and manufactured for Army materiel.

Instruction: Lectures, practical exercises, computer simulation, cases, field trips, and individual and group research to cover the following areas: general administration, data processing, quantitative methods, product and production engineering, and production management and control.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in engineering management, 2 in economic analysis, 4 in engineering applications of computer technology, 3 in mathematical statistics, 3 in statistical quality control, 3 in operations analysis, 3 in systems engineering, 4 in product and production engineering, 2 in cost estimating for engineers, 2 in production system design, 5 in operations management (12/76); in the graduate degree category, 1 semester hour in general and industrial administration and management, 1 in data systems, 6 in quantitative and statistical methods and operations, 3 in product and production engineering, 1 in production management (12/76).

AR-0326-0036

Army Depot Operations Management Correspondence Course

Course Number: 8B-F10.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: 216 "credit"* hours.

Exhibit Dates: 6/76–Present.

Objectives: U *Version To:* train officers and civilian personnel in depot directorate-level management.

Instruction: *A "credit" hour is a measured unit of correspondence work. The number of credit hours assigned to a course is the estimated time required for an average student to read assignments and solve the exercises. These 'credit' hours do not refer to academic credit hours. Correspondence lessons cover depot operations management; general management and practices; and procurement, maintenance, and disposal management.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in supply depot management (12/76).

AR-0326-0037

Army Maintenance Management
Correspondence Course

Course Number: 8AF-F3.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: 242 "credit"* hours.

Exhibit Dates: 6/75–Present.

Objectives: To train officers in maintenance management techniques.

Instruction: *A "credit" hour is a measured unit of correspondence work. The number of credit hours assigned to a course is the estimated time required for an average student to read assignments and solve the exercises. These 'credit' hours do not refer to academic credits. Correspondence lessons cover maintenance system management, including management development, supply functions, maintenance control, communications skills, human relations, programming and financial management, maintenance organization and policies, reporting, repair parts management, and production management.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in production management (12/76).

AR-0326-0038

Defense Procurement Management
Correspondence Course

Course Number: 8D-4320.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: 126 "credit"* hours.

Exhibit Dates: 12/76–Present.

Objectives: To train officers in procurement management.

Instruction: *A "credit" hour is a measured unit of correspondence work. The number of credit hours assigned to a course is the estimated time required for an average student to read assignments and solve the exercises. These 'credit' hours do not refer to academic credits. Correspondence lessons cover fundamentals of procurement, procurement law, the procurement function and post-award functions.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in procurement management (12/76).

AR-0326-0040

Logistics Management Development
Correspondence Course

Course Number: 8A-F16.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: Average 4 weeks (Ft. Lee, VA hours).

Exhibit Dates: 7/77–Present.

Objectives: To provide personnel with an overview of the Army wholesale logistics system and to develop managerial skills.

Instruction: Correspondence lessons cover life-cycle material management, procurement, functional management of assets, information concepts for managers, management theory and decision making, quantitative techniques, working capital funds, and an introduction to defense financial management.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in basic materiel systems management (3/78).

AR-0406-0001

Commissary Middle Management,
Phase III (Commissary Produce
Management
(Commissary Produce Management)

Course Number: 800-F7; 800-F5.

Location: Quartermaster School, Ft. Lee, VA.

Length: 2 weeks (69–70 hours).

Exhibit Dates: 10/72–Present.

Objectives: To train enlisted personnel in the principles, procedures, and responsibilities involved in the operation of commissary produce markets.

Instruction: Lectures, conferences, demonstrations, and practical exercises in identifying sources of supply of fresh fruits and vegetables; produce market management; and personnel supervision.

Credit Recommendation: In the vocational certificate category, 1 semester hour in produce market management (6/75).

Related Occupation Codes: 76X; 76Z.

AR-0406-0002

Air Force Commissary Management

Course Number: None.

Location: Quartermaster School, Ft. Lee, VA.

Length: 6 weeks (210 hours).

Exhibit Dates: 9/71–Present.

Objectives: To train commissary personnel to obtain, store, issue, sell, and account for authorized subsistence supplies.

Instruction: Lectures and practical exercises in the problems of subsistence supply; commissary accounting, processing technology, and inspection; and commissary resale store management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in retail management (2/74); in the upper-division baccalaureate category, 3 semester hours in retail management (2/74).

AR-0406-0003

1. Commissary Management
   (Commissary Operations)
2. Commissary Operations
   (Commissary Officer)

Course Number: *Version 1:* 8G-4223; 551-F2; 10-G-4223. *Version 2:* 10-O-15.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 7 weeks (245–252 hours). *Version 2:* 4–5 weeks (148–176 hours).

Exhibit Dates: *Version 1:* 6/59–Present. *Version 2:* 9/54–5/59.

Objectives: To provide officer, enlisted, and civilian personnel with training in the principles and procedures of commissary operation and management.

Instruction: Lectures and practical exercises in commissary operation and management, including accounting, fiscal procedures, processing technology, merchandising, personnel management, installation-level supply management, and inventory management and control.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in retail management (2/74); in the upper-division baccalaureate category, 3 semester hours in retail management or store management (12/68). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in retail management (2/74); in the upper-division baccalaureate category, 2 semester hours in store management (12/68).

AR-0406-0004

Commissary Middle Management,
Phase IV (Commissary
Administration Management)
(Commissary Administration Management)

Course Number: 800-F7; 800-F3.

Location: Quartermaster School, Ft. Lee, VA.

Length: 2 weeks (75–76 hours).

Exhibit Dates: 10/72–Present.

Objectives: To train enlisted personnel in the principles, procedures, duties, and responsibilities of commissary administration management.

Instruction: Conferences, lectures, demonstrations, and practical exercises in subsistence supply, commissary accounting, personnel management, and commissary equipment and fiscal procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in grocery store office management (6/75).

Related Occupation Codes: 76Z; 76X.

AR-0406-0005

Commissary Middle Management,
Phase II (Commissary Meat
Market Management)
(Commissary Meat Market Management)

Course Number: 800-F7; 800-F4.

Location: Quartermaster School, Ft. Lee, VA.

Length: 2 weeks (72 hours).

Exhibit Dates: 11/72–Present.

Objectives: To provide enlisted personnel with a working knowledge of the principles, procedures, duties, and responsibilities involved in commissary meat market management.

Instruction: Instruction is through lectures, conferences, demonstrations, and practical exercises. Topics include manpower and subsistence supply; and processing, technology, merchandising, and preservation.

Credit Recommendation: In the vocational certificate category, 1 semester hour in meat market management (6/75).

Related Occupation Codes: 94C.

AR-0406-0006

Commissary Middle Management,
Phase I (Commissary Store
Management)
(Commissary Store Management)

Course Number: 800-F7; 800-F6.

Location: Quartermaster School, Ft. Lee, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 11/72–Present.

Objectives: To provide enlisted personnel with a working knowledge of the principles, procedures, duties, and responsibilities involved in commissary store management.

Instruction: Instruction is through lectures, conferences, demonstrations, and practical exercises. Topics include subsistence supply and store operations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in grocery store management (6/75).

Related Occupation Codes: 76P; 76X; 76Z.

AR-0417-0001

ARMY HOUSING MANAGEMENT

Course Number: ALM-61-0298.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 3 weeks (117 hours).

Exhibit Dates: 10/77-Present.

Objectives: To familiarize personnel with the policies and procedures for the management of all types of family, bachelor, transient and guest housing.

Instruction: Lectures, guided discussions, and practical exercises in various phases in the management of military housing: budgeting, maintenance, construction and inventory.

Credit Recommendation: In the vocational certificate category, 1 semester hour in housing management (3/78).

AR-0419-0001

1. TERMINAL OPERATIONS SPECIALIST
   (Cargo Handler)
2. CARGO HANDLER
   (Basic Stevedore)
3. STEVEDORE

Course Number: *Version 1:* 822-57H10. *Version 2:* 822-57H20; 822-56E20. *Version 3:* 55-E-32.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 6 weeks (191-199 hours). *Version 2:* 5 weeks (184-192 hours). *Version 3:* 6 weeks (246 hours).

Exhibit Dates: *Version 1:* 2/71-Present. *Version 2:* 4/67-1/71. *Version 3:* 7/55-3/67.

Objectives: To train enlisted personnel to perform as winch operators, signalmen, and stevedores.

Instruction: *All Versions:* Lectures and practical experience in cargo handling, including the rigging and operation of ship's gear, winch operations, and storage and safety of cargo. *Version 1:* Characteristics of water terminal facilities, forklift operation, cargo transfer operations, stevedoring, and marking supplies for overseas shipment. *Version 3:* Rigging of booms, wire rope splicing, and block and tackle.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in stevedoring and containerization (6/75). *Version 2:* In the vocational certificate category, 3 semester hours in transportation/stevedoring (2/74). *Version 3:* In the vocational certificate category, 6 semester hours in transportation/stevedoring (2/74).

Related Occupation Codes: 57H.

AR-0419-0002

MOVEMENTS SPECIALIST SUPERVISION
(Transportation Movements Control Supervision)

Course Number: 514-F1.

Location: Transportation School, Ft. Eustis, VA.

Length: 5-6 weeks (202-208 hours).

Exhibit Dates: 10/65-Present.

Objectives: To provide enlisted personnel with a working knowledge of the operating procedures, organization, and supervision of transportation movements in the military service.

Instruction: Introduction to transportation regulation and Department of Defense traffic management; movement of dependents; shipment of personal property; routing of freight shipments; classification rates and tariffs; small shipment services; demurrage; documentation of freight shipments; and unitization.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in traffic management (12/68).

AR-0419-0003

AMMUNITION (ENTRY)
(Ammunition Helper)

Course Number: 9-R-410.0; 9-E-32.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (280-304 hours).

Exhibit Dates: 4/56-12/68.

Objectives: To train enlisted personnel to assist in the receipt, storage, shipment, issuance, and maintenance of ammunition.

Instruction: Conferences and practical exercises in the ammunition field; military explosives; ammunition material; safety and hand tools; storage and handling; transportation of ammunition; surveillance, maintenance, and destruction; ammunition documentation; and operation of field ammunition installations.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-0419-0004

CARGO HANDLER SUPERVISOR
(Stevedore Supervisor)
(Stevedore Supervision)

Course Number: 822-57H40; 822-56E40; 55-R-555.7; 55-E-31.

Location: Transportation School, Ft. Eustis, VA.

Length: 6-9 weeks (234-315 hours).

Exhibit Dates: 7/55-12/68.

Objectives: To train enlisted personnel to perform cargo handling activities at water, air, motor, and rail terminals and transfer points.

Instruction: Lectures and practical exercises in terminal cargo operations and documentation procedures; cargo transfer operations; wharf and beach management; supply organization; transportation modes; and stevedoring, including blocking, bracing, and stowage of cargo and cargo-handling gear; and safety procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in transportation or cargo handling (2/74).

AR-0419-0005

1. MOVEMENTS SPECIALIST
2. TRANSPORTATION MOVEMENT SPECIALIST
3. TRANSPORTATION MOVEMENT CONTROL
4. TRANSPORTATION MOVEMENTS
   (Transportation Movement Control)

Course Number: *Version 1:* 514-71N20. *Version 2:* 514-71N20. *Version 3:* 514-719.1. *Version 4:* 55-R-719;1 55-E-39.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 5 weeks (167 hours). *Version 2:* 5-6 weeks (178-213 hours). *Version 3:* 4-5 weeks (168 hours). *Version 4:* 7 weeks (245-308 hours).

Exhibit Dates: *Version 1:* 9/73-Present. *Version 2:* 2/68-8/73. *Version 3:* 10/65-1/68. *Version 4:* 8/55-9/65.

Objectives: To provide enlisted personnel with the techniques and procedures necessary to control the movement of supplies and personnel by rail, water, highway, and air.

Instruction: *All Versions:* Lectures and practical demonstrations in modes of transportation; transportation procedures and regulations; and motor, rail, water, and terminal transportation systems. *Version 1:* Topics include the development of transportation tariff and rate structures, and regulations of traffic management. *Version 2:* Lectures include air transportation management. *Version 3:* Lectures include military tactics, overseas supply processing, and transportation movements. *Version 4:* Lectures include military tactics, overseas supply processing, and traffic management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in transportation or traffic operations (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in transportation or traffic operations (2/74). *Version 3:* In the vocational certificate category, 6 semester hours in traffic operations (2/74); in the upper-division baccalaureate category, 2 semester hours in traffic operations (12/68). *Version 4:* In the vocational certificate category, 6 semester hours in traffic operations (2/74); in the upper-division baccalaureate category, 3 semester hours in traffic operations (12/68).

Related Occupation Codes: 71N.

AR-0419-0006

1. MOTOR TRANSPORT OPERATION AND MAINTENANCE
2. MOTOR TRANSPORT OPERATION AND MAINTENANCE
   (Highway Transportation Operation and Maintenance)
   (Highway Transport Operations)

Course Number: *All Versions:* 55-B-0600; 55-B-0605; 55-B-0660. *Version 1:* 55-B-631A. *Version 2:* 55-0-6.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 9 weeks (310 hours). *Version 2:* 12 weeks (419 hours).

Exhibit Dates: *Version 1:* 9/60-12/68. *Version 2:* 11/54-8/60.

Objectives: To train officers and warrant officers to manage and supervise the operation and maintenance of transportation highway units and administrative motor pools.

Instruction: Diverse training in many areas of transportation, including transportation intelligence, guerilla and antiguerilla operations, motor transportation in a theatre of operations, convoy organization and operation, vehicle research and development planning, highway traffic planning, commercial truck operations, and dispatch methods and procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in transportation and maintenance management (2/74); in the upper-division baccalaureate category, 4 semester hours in transportation and maintenance management (12/68). *Version 2:* In the vocational certificate category, 6 semester hours in transportation and maintenance management (2/74); in the upper-division baccalaureate category, 6 semester hours in transportation and maintenance management (12/68).

Related Occupation Codes: 630A; 631A; 632A.

AR-0419-0007

Railway Operations

Course Number: 55-R-663.1; 55-E-36.
Location: Transportation School, Ft. Eustis, VA.
Length: 10 weeks (350 hours).
Exhibit Dates: 9/55-12/68.
Objectives: To train enlisted personnel to coordinate and control railway rolling stock by means of proper car distribution and car accounting.
Instruction: Teaches personnel to recognize and use terms of rolling stock; block and yard operations; familiarity with demurrage, car records, and railway office procedures; includes practical railroad experience on the Baltimore and Ohio Railroad.
Credit Recommendation: In the vocational certificate category, 6 semester hours in transportation or railway operations (2/74).

AR-0419-0008

Theater of Operations Movements Officer

Course Number: 8C-F8.
Location: Transportation School, Ft. Eustis, VA.
Length: 2 weeks (70 hours).
Exhibit Dates: 9/69-Present.
Objectives: To give commissioned officers working knowledge of the responsibilities and duties in managing import and export movement of cargo and personnel in a theater of operations.
Instruction: Principles of transportation movements; movements programming; demurrage; unitization; management of transportation resources; aerial port operations; routing of retrograde shipments; and traffic management research.
Credit Recommendation: In the vocational certificate category, 1 semester hour in transportation and traffic movements (2/74).

AR-0419-0009

Supply (SU-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 5-SU-C40B.
Location: Transportation School, Ft. Eustis, VA.
Length: *Version 1:* 8-10 weeks (299-371 hours). *Version 2:* 12 weeks (365 hours).
Exhibit Dates: *Version 1:* 5/74-Present. *Version 2:* 8/72-4/74.
Objectives: To provide selected enlisted personnel with the knowledge and skills required to perform the duties of a noncommissioned officer.
Instruction: Lectures and practical exercises in leadership training; military operations and management; communication skills; transportation modes and supply; planning and documentation; and supply operations, including loading and unloading.
Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in stevedoring and containerization (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (6/75). *Version 2:* In the vocational certificate category, 3 semester hours in transportation and supply (2/74).
Related Occupation Codes: 57H

AR-0419-0010

Cargo Handler (SU-CMF) Noncommissioned Officer (NCO) Advanced
(Supply (SU-CMF) Noncommissioned Officer (NCO) Advanced)

Course Number: 5-SU-C42B.
Location: Transportation School, Ft. Eustis, VA.
Length: 8-12 weeks (278-385 hours).
Exhibit Dates: 9/72-Present.
Objectives: To provide enlisted personnel with the necessary supervisory skills to perform as noncommissioned officers.
Instruction: Discussions and practical exercises in logistical combat support, leadership, management, communication techniques, storage operations, procurement management, and property disposal.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles of management (6/75).
Related Occupation Codes: 76N; 76Q; 76S; 76U; 76X; 76P; 76R; 76T; 76V; 76Y.

AR-0419-0011

Marine (MR-CMF) Noncommissioned Officer (NCO) NCO Basic
(Amphibian Operator Skill Development Base)

Course Number: 0-MR-C40; 813-61D40-1.
Location Transportation School, Ft. Eustis, VA.
Length: 8-17 weeks (304-795 hours).
Exhibit Dates: 10/68-Present.
Objectives: To train selected enlisted personnel in the operation and maintenance of amphibious watercraft.
Instruction: Lectures and practical exercises in leadership and supervisory training; communication skills; marine electrical systems; high-speed marine diesel engines; power trains and auxiliaries; navigation and piloting; diving techniques and equipment; marine hull repair; welding; and pipefitting.
Credit Recommendation: In the vocational certificate category, 6 semester hours in transportation and watercraft operation (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (6/75).
Related Occupation Codes: 61B; 61C; 61D; 61E; 00B.

AR-0419-0012

Marine (ME-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 0-MR-C42.
Location: Transportation School, Ft. Eustis, VA.
Length: 9-10 weeks (275-288 hours).
Exhibit Dates: 8/72-Present.
Objectives: To provide enlisted personnel with the knowledge necessary to perform the duties of a senior noncommissioned officer.
Instruction: Lectures on military operations and staff, management, transport and marine operations, air movement planning, military justice, and logistics and financial management.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in marine depot operations (6/75), in the upper-division baccalaureate category, 3 semester hours in principles of management (6/75).
Related Occupation Codes: 61B; 61C; 61D; 61E; 00B.

AR-0419-0013

Motor Transport (MT-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 8-MT-C40.
Location: Transportation School, Ft. Eustis, VA.
Length: 7-9 weeks (244-319 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train enlisted personnel to perform as noncommissioned officers in the motor transportation field.
Instruction: Lectures and practical exercises in motor pool organization and administration; personnel management, communications skills, and human development; motor vehicle operation, maintenance, and safety; and special motor transport problems, such as dangerous cargo transport, accident reports, and night driving.
Credit Recommendation: In the vocational certificate category, 2 semester hours in motor transportation supervision (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (6/75).
Related Occupation Codes: 64C.

AR-0419-0014

Railway Dispatching

Course Number: 55-R-664.2; 55-E-15.
Location: Transportation School, Ft. Eustis, VA.
Length: 10 weeks (350 hours).
Exhibit Dates: 7/55-12/68.
Objectives: To train enlisted personnel in all aspects of railway dispatching.
Instruction: Lectures and practical experience in basic railway operation, including control and coordination of train movements, transportation rules and regulations, railway station operation, and on-the-job training in railway dispatching.
Credit Recommendation: In the vocational certificate category, 3 semester hours in railway operations (1/74).

AR-0419-0015

Truckmaster

Course Number: 55-R-643.6.
Location: Transportation School, Ft. Eustis, VA.
Length: 9 weeks (318 hours).
Exhibit Dates: 2/57-2/65.
Objectives: To train qualified heavy vehicle drivers to supervise the operation and maintenance of wheeled vehicles and to control motor transport movements of personnel, supplies, and equipment.
Instruction: Lectures and practical exercises in the supervision of wheeled vehicle operation and maintenance and the control of motor transport movements, including internal combustion engines; lubrication, electrical, and fuel systems; brakes; transmission; tires and wheels; supervision and inspection; motor transport and planning operations; and dispatch procedures and reports.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in transportation management programs, 3 in truck driver training, 2 in automotive technology (4/74).

AR-0419-0016

Administration (AG-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 5-AG-C40B.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8–9 weeks (295–337 hours). *Version 2:* 11 weeks (365 hours).

Exhibit Dates: *Version 1:* 4/74–Present. *Version 2:* 10/72–3/74.

Objectives: To train noncommissioned officers in the administration of Army transportation units.

Instruction: Lectures and practical exercises in transportation unit administration. Course includes principles of leadership; problem solving in personnel management; communications skills in testing, writing, and methods of instruction; transportation movements of supplies and personnel; traffic management; organization of transportation offices; freight shipping routing; commercial freight services; demurrage; unitization loss and damage; modes of transport; movements planning; procedures for air and surface transportation documentation; marshalling; aerial port operations; railway services and equipment, and beach operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (6/75). *Version 2:* In the vocational certificate category, 3 semester hours in transportation, 3 in personnel administration or human relations (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in transportation, 3 in personnel administration or human relations (6/74); in the upper-division baccalaureate category, 3 semester hours in transportation (6/74).

Related Occupation Codes: 71N.

AR-0419-0017

1. Movements Specialist (AG-CMF) Noncommissioned Officer (NCO) Advanced
2. Administration (AG-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 5-AG-C42B.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8 weeks (291 hours). *Version 2:* 10 weeks (313 hours).

Exhibit Dates: *Version 1:* 11/74–Present. *Version 2:* 9/72–10/74.

Objectives: To train noncommissioned officers to handle administrative responsibilities in a transportation unit.

Instruction: Lectures and practical exercises in the administration of a transportation unit. Course includes military leadership, staff organization and functions, supply procedures, traffic management, demurrage, carrier qualifications, claims, freight movements, movements management, tariffs, freight classification, documentation of freight shipments, loss and damage, emergency traffic management, air movement, railway transport, marshalling trends, and developments in motor transportation.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management (6/75). *Version 2:* In the vocational certificate category, 4 semester hours in transportation, and 3 in personnel administration or human relations (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in transportation, and 3 in personnel administration or human relations (6/74); in the upper-division baccalaureate category, 4 semester hours in transportation (6/74).

Related Occupation Codes: 71N.

AR-0419-0018

Associate Transportation Officer Career

Course Number: 55-A-C23.

Location: Transportation School, Ft. Eustis, VA.

Length: 12–17 weeks (432–610 hours).

Exhibit Dates: 6/60–12/68.

Objectives: To train commissioned officers to perform as transportation officers.

Instruction: Lectures and practical exercises in duties of transportation officers, including utilization and management of transportation modes (aviation, motor, rail, and water); terminal operations; transportation movements; intelligence and communications procedures; nuclear weapons, chemical, biological, and radiological warfare; logistics; personnel and administration; and military science and tactics.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in transportation management (12/68).

AR-0419-0019

1. Transportation Officer Advanced
2. Transportation Officer Advanced
3. Transportation Officer Advanced
4. Transportation Officer Advanced (Transportation Officer Career)
5. Transportation Officer Advanced

Course Number: *Version 1:* 8-55-C22A; 8-55-C22B; 8-55-C22C; 8-55-C22D. *Version 2:* 8-55-C22. *Version 3:* 8-55-C22. *Version 4:* 8-55-C22. *Version 3:* 55-A-C22; 55-A-C4. *Version 4:* 55-A-C4, 55-O-3. *Version 5:* None.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 26 weeks (679 hours). *Version 2:* 32 weeks (1065 hours). *Version 3:* 36 weeks (1095 hours). *Version 4:* 24–30 weeks (529–918 hours). *Version 5:* 35–36 weeks (1059–1400 hours).

Exhibit Dates: *Version 1:* 12/75–Present. *Version 2:* 1/75–11/75. *Version 3:* 6/72–12/74. *Version 4:* 5/58–5/72. *Version 5:* 9/54–4/58.

Objectives: To qualify commissioned officers, who have completed the transportation officer basic course or its equivalent, for command and staff duties at battalion, brigade or comparable levels, and in the duties of Transportation Corps officers.

Instruction: *All Versions:* Lectures and practical exercises on the duties of Transportation Corps officers at command and staff levels, including military staff; management; internal defense and development; military operations; logistics; nuclear, biological, and chemical operations; air, motor, rail, and water terminals and transport; traffic management; and educational development. *Version 2:* Topics include economics, data processing, and public speaking. *Version 4:* Topics include operations and intelligence, aviation, personnel and administration, nuclear weapons, communication skills, counterinsurgency, and professional development. *Version 5:* Topics include map reading and the organization and operation of the U.S. Army, the U.S. Navy, and the Canadian Army.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory data processing, 3 in public speaking, and 6 in principles of transportation (6/75); in the upper-division baccalaureate category, 6 semester hours in transportation management and 6 in economics of transportation (6/75). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in general management, 6 in traffic management (7/74). *Version 4:* In the upper-division baccalaureate category, 3 semester hours in business organization, 6 in traffic management (12/68). *Version 5:* In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in business organization, and 6 in traffic management (12/68).

AR-0419-0020

Transportation Officer Familiarization

Course Number: 55-A-C21.

Location: Transportation School, Ft. Eustis, VA.

Length: 7 weeks (245–252 hours).

Exhibit Dates: 11/59–12/68.

Objectives: To train commissioned officers to perform as transportation officers.

Instruction: Lectures and practical exercises in transportation, including subjects of military significance (logistics, operation, and intelligence), transportation organization, plans and employment, general transportation aviation, transportation movements, and rail, motor, and water transport.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in transportation organization and management (12/68).

AR-0419-0021

Air Transportability

Course Number: 822-F10.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (74 hours).

Exhibit Dates: 8/72–11/75.

Objectives: To train selected noncommissioned officers to plan, organize, and conduct air management training and/or operations in their organizations.

Instruction: Lectures and practical exercises in the planning, organization, and coordination of air management training and/or operations. Topics include aircraft characteristics, unit air movement planning, loading and lashing fundamentals, shoring, and handling of dangerous cargo.

Credit Recommendation: In the vocational certificate category, 2 semester hours in air transportation (7/74).

AR-0419-0022

Associate Transportation Officer Advanced

Course Number: 55-O-4.

Location: Transportation School, Ft. Eustis, VA.

Length: 12–16 weeks (421–579 hours).

Exhibit Dates: 11/55–6/60.

Objectives: To train officers to be transportation officers.

Instruction: Lectures and practical exercises in organization, planning, and management of air, rail, motor, and water transportation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in transportation management (12/68).

AR-0419-0023

Transportation Officer Orientation

Course Number: 8-55-C21.

Location: Transportation School, Ft. Eustis, VA.

Length: 5 weeks (168–209 hours).

Exhibit Dates: 9/67-12/71.

Objectives: To provide initial branch training and orientation for commissioned officers assigned to the Transportation Corps.

Instruction: Lectures and practical exercises in transportation, including officer orientation, logistics, air and rail transport, terminal and water transport, motor transport, transportation movements, and integrated training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in transportation management and organization (7/74); in the upper-division baccalaureate category, 2 semester hours in transportation organization and management (12/68).

AR-0419-0024

Motor Transport (MT-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 8-MT-C42.

Location: Transportation School, Ft. Eustis, VA.

Length: 9-10 weeks (284-301 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train noncommissioned officers in motor transport operations.

Instruction: Lectures and practical exercises in the duties of a noncommissioned officer in motor transportation. Topics include military operations, military staff and management; general transportation subjects (air, marine, rail, and motor); and the organization, operation, mission, and function of specific transportation units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in motor transport supervision (6/75); in the upper-division baccalaureate category, 3 semester hours in principles of management (6/75).

Related Occupation Codes: 64C.

AR-0419-0025

Transportation Officer Candidate

Course Number: 8-55-F1.

Location: Transportation School, Ft. Eustis, VA.

Length: 23 weeks (862 hours).

Exhibit Dates: 8/66-Present.

Objectives: To train officers for duty in transportation units.

Instruction: Lectures and practical exercises in transportation, including military science and tactics; nuclear weapons and CBR; map and air photo reading; general communication skills; air, motor, and rail transport; terminal and water transport; and transportation movements.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in transportation organization, and credit in advanced military training at institutions which normally offer such credit (12/68).

AR-0419-0026

Airdrop Loadmaster

Course Number: Not available.

Location: Quartermaster School, Ft. Lee, VA.

Length: 3 weeks (146 hours).

Exhibit Dates: 8/64-12/68.

Objectives: To train personnel to pack cargo parachutes used in airdrops.

Instruction: Lectures and practical exercises in packaging procedures, airdrop containers, and aircraft operations, including parachute packing and cargo parachutes, rigging supplies and equipment, aircraft loading, rehabilitation of equipment, heavy-drop extraction procedures, recovery, cargo platform preparation, parachute release assemblies, cargo slings and bags, and parachute release assemblies.

Credit Recommendation: In the vocational certificate category, 3 semester hours in transportation—airdrop loadmaster (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in transportation—airdrop loadmaster (7/74).

AR-0419-0027

Preservation and Intermediate Protection

Course Number: 8B-F1(JT).

Location: Joint Military Packaging Training Center, Aberdeen Proving Ground, MD.

Length: 2 weeks (76 hours).

Exhibit Dates: 5/70-Present.

Objectives: To train commissioned officers, enlisted personnel, and civilian personnel in the techniques of cleaning, drying, preserving, and packing military supplies and equipment.

Instruction: Lectures and practical exercises on preservation and intermediate protection of military supplies and equipment, including packing specifications, cleaning, preservatives, sprayable and strippable films, controlled humidity, packaging inspection, preparation of retrograde material for shipment, and packaging costs and documentation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in the transportation, preservation, and protection of supplies (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in the transportation, preservation, and protection of supplies (7/74).

AR-0419-0028

Packing and Containerization

Course Number: 8B-F2 (JT).

Location: Joint Military Packaging Training Center, Aberdeen Proving Ground, MD.

Length: 2 weeks (76 hours).

Exhibit Dates: 4/70-Present.

Objectives: To train personnel in the packing, marking, and loading of military supplies and equipment for storage and shipment.

Instruction: Lectures and practical exercises in the packing, marking, and loading of military supplies and equipment for storage and shipment, including introduction to packing and containerization, crate design, cargo unitization and containerization, cushioning and blocking, bracing and anchoring, loading for shipment, utilization of packing lines, parcel post, and packing cost reduction.

Credit Recommendation: In the vocational certificate category, 2 semester hours in transportation, packing, and containerization (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in transportation, packing, and containerization (7/74).

AR-0419-0029

1. Trainman
2. Railway Trainman

Course Number: *Version 1:* 55-R-662.1. *Version 2:* 55-E-3.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8 weeks (280 hours). *Version 2:* 10 weeks (374 hours).

Exhibit Dates: *Version 1:* 7/58-12/61. *Version 2:* 9/54-6/58.

Objectives: To train enlisted personnel to operate trains and handle railway cars in railway yards and over the road.

Instruction: Lectures in railway operating rules, train and engine service, and practical experience on the B & O railroad.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in trainman techniques (7/74). *Version 2:* In the vocational certificate category, 8 semester hours in trainman techniques (7/74).

AR-0419-0030

1. Locomotive Operation
2. Railway Locomotive Operation

Course Number: *Version 1:* 55-R-661.2. *Version 2:* 55-E-7.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8 weeks (280 hours). *Version 2:* 10 weeks (350 hours).

Exhibit Dates: *Version 1:* 7/58-12/68. *Version 2:* 9/55-6/58.

Objectives: To train enlisted personnel to operate steam and diesel-electric locomotives used in yard and road service.

Instruction: Lectures and practical exercises in steam and diesel-electric locomotive operation, including railway operating rules, locomotive operation, locomotive inspection and maintenance, and practical exercises on the B & O railroad.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in locomotive operation (7/74). *Version 2:* In the vocational certificate category, 8 semester hours in locomotive operation (7/74).

AR-0419-0031

Air Transportability Planning

Course Number: 8C-F2; 822-F10.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (84-85 hours).

Exhibit Dates: 9/65-Present.

Objectives: To train commissioned officers and warrant officers to plan, organize, and conduct unit air movement training and operations.

Instruction: Lectures and practical exercises in the duties of a unit air movement officer. Course includes manifesting procedures, aircraft characteristics, air movement planning, loading fundamentals, and handling dangerous cargo.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in air transportation planning (7/74).

Related Occupation Codes: 160A; 103A; 100B.

AR-0419-0032

1. Cargo Officer
2. Stevedore Officer

Course Number: *All Versions:* 8C-0804. *Version 2:* 55-A-0804.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 9 weeks (346 hours). *Version 2:* 8-9 weeks (278-315 hours).

Exhibit Dates: *Version 1:* 6/68-Present. *Version 2:* 9/57-5/68.

Objectives: To train officers to be cargo and stevedore officers in transportation terminal units.

Instruction: *All Versions:* Lectures and practical exercises in introduction to transportation modes, terminal facilities involved in cargo handling, water transportation terminal cargo planning and documentation, stevedore operations supervision, and cargo preparation and loading for shipment. *Version 2:* Instruction emphasizes stevedore operations and terminal organization and operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in cargo handling (7/74). *Version 2:* In the vocational certificate category, 5 semester hours in cargo handling (7/74).

AR-0419-0033

1. Transportation Officer Basic
2. Transportation Officer Basic
   (Transportation Officer Orientation)

Course Number: *All Versions:* 8-55-C20. *Version 2:* 55-A-C20; 55-O-A; 55-A-C1.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 12 weeks (515 hours). *Version 2:* 8-11 weeks (286-426 hours).

Exhibit Dates: *Version 1:* 7/74-Present. *Version 2:* 9/55-6/74.

Objectives: To train newly commissioned officers for transportation operations management.

Instruction: Lectures and practical exercises in the organization, planning, and management of air, motor, rail, and water transportation movements, including truck company operations, convoy, rail operations, loading and blocking, terminal operations and management, cargo planning, stowage, dangerous cargo, traffic management, and freight movements and planning.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 2 in principles of depot operations (6/75). *Version 2:* In the lower-division baccalaureate/associate degree category, 5 semester hours in transportation organization and management (7/74); in the upper-division baccalaureate category, 3 semester hours in transportation organization and management (7/74).

AR-0419-0034

1. Harbor Craft Deck Officer
2. Harbor Craft Deck Operations
3. Harbor Craft Deck Operations
   (Harbor Craft Deck Officer)

Course Number: *Version 1:* 8C-0820; 8C-0825; 8C-561D; 062-F1. *Version 2:* 8C-0820; 771-F1; 55-H-0820. *Version 3:* 55-OE-24.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 20 weeks (720-743 hours). *Version 2:* 18 weeks (661 hours). *Version 3:* 18-19 weeks (630-714 hours).

Exhibit Dates: *Version 1:* 10/71-Present. *Version 2:* 7/68-9/71. *Version 3:* 10/55-6/68.

Objectives: To train officers and enlisted personnel to plan, direct, and supervise operations on military harbor craft.

Instruction: *All Versions:* Lectures and practical exercises in harbor craft deck operations, including navigation by the sun and stars, general shipboard subjects, open-water navigation, and piloting and operation. *Version 1:* Topics include general marine subjects, maintenance management, ship's deck and cargo gear, marlinspike seamanship, and radio communications. *Version 2:* Topics include communications, ship and tug handling, courses and bearings, organizational administration, cargo stowage and handling, and navigational equipment. *Version 3:* Topics include general shipboard subjects; cargo stowage and handling; ship handling; ship's instruments, accessories, electronic equipment, and magnetic variances; courses and bearings; weather principles, tides, and currents; and shipboard emergencies.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in seamanship (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in marine navigation (6/75). *Version 2:* In the vocational certificate category, 17 semester hours in transportation—water navigation (7/74); in the lower-division baccalaureate/associate degree category, 13 semester hours in transportation—water navigation (7/74); in the upper-division baccalaureate category, 4 semester hours in transportation—water navigation, and additional credit in mathematics on the basis of institutional examination (7/74). *Version 3:* In the vocational certificate category, 17 semester hours in transportation—water navigation (7/74); in the lower-division baccalaureate/associate degree category, 13 semester hours in transportation—water navigation (7/74); in the upper-division baccalaureate category, 4 semester hours in navigation, and credit in trigonometry on the basis of institutional examination (12/68).

Related Occupation Codes: 561D.

AR-0419-0035

1. Defense Advanced Traffic Management
2. Defense Advanced Traffic Management
3. Defense Advanced Traffic Management
   (Advanced Traffic Management)
4. Advanced Traffic Management

Course Number: *Version 1:* 8C-F3. *Version 2:* 8C-F3. *Version 3:* 8C-F3; 55-G-F3. *Version 4:* 55-O-15.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 3 weeks (100 hours). *Version 2:* 4 weeks (140 hours). *Version 3:* 4 weeks (140-147 hours). *Version 4:* 6 weeks (208-219 hours).

Exhibit Dates: *Version 1:* 1/74-Present. *Version 2:* 4/70-12/73. *Version 3:* 12/58-3/70. *Version 4:* 2/54-11/58.

Objectives: To train commissioned officers with prior schooling in traffic management in advanced managerial procedures for traffic and general transportation.

Instruction: Lectures and practical exercises in managerial procedures for traffic and general transportation, including economics of transportation, characteristics of various modes and carriers, transportation services and regulations, industrial and military traffic management, transportation in logistics, movement of regular and special cargo (weapons and missiles), household goods and passengers, claim prevention, and rate negotiation.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in economics of transportation (6/75). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in transportation management (7/74). *Version 3:* In the upper-division baccalaureate category, 2 semester hours in transportation management (12/68). *Version 4:* In the upper-division baccalaureate category, 3 semester hours in transportation management (12/68).

AR-0419-0036

1. Installation Traffic Management
2. Installation Transportation

Course Number: *Version 1:* 8C-F4; 55-G-F1. *Version 2:* 55-O-8.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 4 weeks (143-147 hours). *Version 2:* 8 weeks (280-320 hours).

Exhibit Dates: *Version 1:* 2/61-Present. *Version 2:* 6/54-1/61.

Objectives: To train commissioned officers in the performance of commercial and military traffic functions and in the military transportation functions of an installation transportation officer.

Instruction: *All Versions:* Lectures and practical exercises in installation traffic management, including passenger, freight, and personal property traffic. *Version 1:* Topics include carrier qualifications, modes and storage selection, quality control procedures, traffic management, specialized freight movements, small-shipment services; organization and field installations, commercial transportation service, procurement, integrated accounting, and movement of units and large groups. *Version 2:* Topics include organization and field installations, movement problems, Transportation Corps Field Services in the continental United States, administration and supply, utility railways and equipment, and operation and functions of aviation sections.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in transportation management (7/74). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in transportation management (12/68).

AR-0419-0038

Transportation Company Officer

Course Number: *Version 1:* 55-A-C2. *Version 2:* 55-O-1; 55-A-C2. *Version 3:* 55-O-1.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 21 weeks (643 hours). *Version 2:* 34-36 weeks (1083-1146 hours). *Version 3:* 30 weeks (1056 hours).

Exhibit Dates: *Version 1:* 6/58-12/68. *Version 2:* 8/56-5/58. *Version 3:* 9/55-7/56.

Objectives: To train commissioned officers in the responsibilities appropriate to company grade transportation officers.

Instruction: Lectures and practical exercises in transportation, including personnel and administration; intelligence; operations and training; logistics; motor and rail transport; terminal and water transport; aviation; general transport; U.S. Navy, U.S. Air Force, and Canadian Army transportation procedures; and instructional methods.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in business organization, 3 in traffic management (12/68). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in business organization, and 6 in traffic management (12/68). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in business organization, 3 in traffic management (12/68).

AR-0602-0001

U.S. Army Institute for Advanced Russian and East European Studies

Course Number: None.

Location: Institute for Advanced Russian and East European Studies, Garmisch, Germany.

Length: 104 weeks (3120 hours).
Exhibit Dates: 7/69–Present.

Objectives: To train officers in advanced Russian language and area studies, and in East European area studies.

Instruction: Lectures, readings, and student research and discussions in advanced Russian language and area studies, and in East-European area studies, including intensive review of Russian, basic vocabulary, and grammar; armed forces subjects, including tactics and training, command and staff structures, map reading, history and organization of the Soviet armed forces, mobilization procedures of the Soviet armed forces, military operations on the Eastern front in World War II, logistics, counterintelligence and intelligence studies, Soviet military doctrine and strategy, principles of war, roles of insurgency and revolution, and current Soviet military affairs and problems; physical geography of the U.S.S.R.; economic subjects, including economic theories of Marx, Engels and Lenin, Soviet planning and control methods, organization of the Soviet economy, principles of Soviet regionalization, impact of recent economic reforms, and a study of the history, characteristics, production, distribution, development, and overall role of each branch in the economic complex; political subjects, including political history of Russia and the U.S.S.R. since 1800, development of the Soviet state, role of the Communist Party, organs of centralized control, elements of the population, communist doctrine and ideology, contemporary revisionism and dogmatism, governmental structure of the Soviet Union, contrast of the official and actual Soviet system of government, tactics of the Communist Party, leading personalities and opposition to the party, the U.S.S.R. in international relations since 1918, communist insurgency and subversive activities, and Soviet law and judicial system; communist states subjects, including international economic organization of the states, and the geography, population, natural resources, economy, history, government, foreign relations, strategic importance, and relationship to the Soviet Union of East Germany, Poland, Czechoslovakia, Hungary, Rumania, Bulgaria, Yugoslavia, and Albania; and social science subjects, including brief treatments of contemporary Soviet literature, drama, television, painting and music, survey of the Soviet press and organization of published materials, seminar on Soviet society, and development of Russian and Soviet literature with emphasis on elements of continuity and change.

Credit Recommendation: In the graduate degree category, for the entire two-year program, 6 semester hours in advanced Russian language, including formal instruction and 'total immersion' in content courses taught in Russian, 3 in Russian and Soviet literature, 6 in politico-economic area studies (8/74).

AR-0602-0002

Military Assistance Training Advisor
Senior Noncommissioned Officer
(NCO)

Course Number: None.
Location: Institute for Military Assistance, Ft. Bragg, NC; Special Warfare School, Ft. Bragg, NC.
Length: 6 weeks (196–233 hours).
Exhibit Dates: 2/66–4/73.

Objectives: To provide senior noncommissioned officers selected for advisory duty in Vietnam, with a familiarization with the Vietnamese language and a general knowledge of the duties and responsibilities of the military advisor.

Instruction: Lectures and practical exercises to provide a general background orientation to the history and present social, political and economic environment of Vietnam; the insurgent threat and allied programs being conducted to counter the insurgency.

Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese on the basis of institutional evaluation (12/68). NOTE: If the student has a Defense Language Institute (DLI) transcript indicating completion of the entire 12-week Vietnamese course, 8 semester hours in Vietnamese may be granted.

AR-0602-0003

Military Assistance Training Advisor
Field Grade Officer

Course Number: None.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 6 weeks (218 hours).
Exhibit Dates: 1/70–4/73.

Objectives: To provide officers selected for duty in the Republic of Vietnam with a working knowledge of the duties, organizations, programs, techniques, and procedures that make up the advisory effort.

Instruction: Lectures and practical exercises in the history, geography, ethnic groups, social structure, and other general subjects dealing with the background of Vietnam; map reading, first aid, weapons, field fortifications, communications, and other general subjects; and Vietnamese language. Language training in this course is the first 4 weeks of the 12-week Vietnamese (Saigon dialect) course given by the Defense Language Institute (DLI) at Ft. Bliss. If the entire 12-week course has been completed, student will have a DLI transcript.

Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese on the basis of institutional examination (7/74). Note: If student has a DLI transcript indicating completion of the entire 12-week Vietnamese course, 8 semester hours in Vietnamese may be granted.

AR-0602-0004

Military Assistance Training Advisor
CORDS Officer

Course Number: None.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 6 weeks (200 hours).
Exhibit Dates: 11/71–4/73.

Objectives: To provide selected officers with a knowledge of duties of a military advisor and to familiarize them with the Vietnamese language.

Instruction: Lectures and practical exercises to include general orientation to Vietnam, the art and technique of the advisor, internal defense and internal development, Vietnamese familiarization. Language training in this course is the first 4 weeks of the 12-week Vietnamese (Saigon dialect) course given by the Defense Language Institute (DLI) at Ft. Bliss. If entire 12-week course has been completed, student will have a DLI transcript.

Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese on the basis of institutional examination. Note: If student has a Defense Language Institute (DLI) transcript indicating completion of the entire 12-week Vietnamese course, 8 semester hours in Vietnamese may be granted (7/74).

AR-0602-0005

Military Assistance Training Advisor
Company Grade Officer

Course Number: None.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 6 weeks (219 hours).
Exhibit Dates: 1/70–4/73.

Objectives: To provide officers selected for advisory duty in the Republic of Vietnam with a working knowledge of the duties, organizations, programs, techniques, and procedures that make up the advisory effort.

Instruction: Lectures and practical exercises in the political, social, and economic environment of Vietnam, the stability operations and pacification program, community tactics and strategy of indirect approach, Communist military tactics, and Vietnamese language. Language training in this course is the first 4 weeks of the 12-week Vietnamese (Saigon dialect) course given by the Defense Language Institute (DLI) at Ft. Bliss. If the entire 12-week course has been completed, student will have a DLI transcript.

Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese on the basis of institutional examination (7/74). Note: If student has a DLI transcript indicating completion of the entire 12-week Vietnamese course, 8 semester hours in Vietnamese may be granted.

AR-0602-0006

Military Assistance Training Advisor
ARVN Officer

Course Number: None.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 6 weeks (200 hours).
Exhibit Dates: 11/71–4/73.

Objectives: To provide commissioned officers selected for advisory duty with a unit of the Army of the Republic of Vietnam with a working knowledge of the duties and responsibilities of the military advisor.

Instruction: Conferences and practical exercises in the organization, programs, and operations of the U.S. advisory effort, and familiarization with the Vietnamese language.

Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese on the basis of institutional evaluation. Note: If the student has a Defense Language Institute (DLI) transcript indicating completion of a 12-week Vietnamese course, 8 semester hours in Vietnamese may be granted (7/74).

AR-0701-0001

Dental Laboratory Procedures
(Basic)
(Dental Laboratory)

Course Number: 331-42D10; 8-R-452.1; 8-E-1.
Location: Medical Field Service School, Ft. Sam Houston, TX.
Length: 8–16 weeks (280–704 hours).
Exhibit Dates: 2/56–Present.

Objectives: To train enlisted personnel to perform basic dental prosthetic laboratory techniques.

Instruction: Lectures and practical exercises in basic dental prosthetic laboratory techniques. Course includes anatomy and tooth morphology, basic dental materials, and complete denture prosthetics.

Credit Recommendation: in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and tooth morphology, 1 in dental materials, 1 in complete dentures (6/77).

Related Occupation Codes: 42D; 42F.

AR-0701-0002

Dental Hygienist
(Dental Assistant (Advanced))

Course Number: 330-91E20; 330-91E30; 8-R-917.2; 8-E-35.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: 8-20 weeks (281-640 hours).

Exhibit Dates: 3/56-Present.

Objectives: To provide dental specialists with a working knowledge of oral hygiene prophylactic procedures and oral disease control methods.

Instruction: Lectures, practical exercises and laboratories in the performance of oral hygiene prophylactic procedures, determination of patients' individual problems relative to oral health, counseling of patients, flossing techniques, tooth brushing methods and application and flourides.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic dental science, 2 in dental health, 8 in clinical training, 3 in dental materials (6/77).

Related Occupation Codes: 91E.

AR-0701-0003

Dental Laboratory Specialist Senior

Course Number: 331-42D30.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 10 weeks (356-394 hours).

Exhibit Dates: 12/76-Present.

Objectives: To train enlisted personnel in advanced prosthetic dental laboratory techniques, including basic orthodontic procedures and ceramic (porcelain) procedures.

Instruction: Lectures and practical exercises in basic orthodontic-pedodontic procedures. Emphasis is placed on porcelain fused to metal restorations. Course includes an introduction to basic maxillofacial appliances.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hours in dental anatomy (occlusion), 2 in orthodontic procedures, 4 in dental ceramic procedures (6/77).

Related Occupation Codes: 42D.

AR-0701-0004

Dental Administration

Course Number: 330-F1.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 4 weeks (176 hours).

Exhibit Dates: 10/67-Present.

Objectives: To provide enlisted personnel with a working knowledge of dental administration in treatment facilities.

Instruction: Lectures and practical experience in the basic principles of dental administration, including personnel management, dental equipment supply and maintenance, dental facility organization, implementing a preventive dentistry program, and administration of a field dental treatment facility.

Credit Recommendation: Credit is not recommended because of the military nature of the course (2/74).

Related Occupation Codes: 91E; 42D; 42F.

AR-0701-0005

Dental Fixed Prosthetic Specialist

Course Number: 331-42F20.

Location: *Version 1:* Brooke Army Medical Center, Ft. Sam Houston, TX. *Version 2:* Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 10 weeks (405 hours). *Version 2:* 10 weeks (368 hours).

Exhibit Dates: *Version 1:* 7/70-8/79. *Version 2:* 10/67-6/70.

Objectives: To provide dental removable prosthetic specialists with a working knowledge of fixed partial denture techniques.

Instruction: Lectures and laboratories in the fundamentals of fixed partial denture techniques, including applied dental sciences; dental metals and materials; inlays, crowns, and fixed partial dentures; models, dies, and waxing; and maintenance of dental laboratory equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in dental laboratory on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in dental laboratory on the basis of institutional examination (2/74); in the upper-division baccalaureate category, credit in dental laboratory on the basis of institutional examination (2/74). *Version 2:* In the vocational certificate category, 3 semester hours in dental laboratory on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in dental laboratory on the basis of institutional examination (2/74); in the upper-division baccalaureate category, credit in dental laboratory on the basis of institutional examination (12/68).

Related Occupation Codes: 42D; 42F.

AR-0701-0006

1. Dental Laboratory Specialist Advanced
2. Dental Removable Prosthetic Specialist
3. Dental Removable Prosthetic Specialist

(Dental Laboratory Procedures (Advanced))

Course Number: *All Versions:* 331-42D20. *Version 2:* 8-R-452;2 8-E-34.

Location: Academy of Health Sciences, Ft. Houston, TX; Medical Service School, Ft. Houston, TX.

Length: *Version 1:* 15 weeks (556 hours). *Version 2:* 10 weeks (350 hours). *Version 3:* 10-20 weeks (352-630 hours).

Exhibit Dates: *Version 1:* 5/76-Present. *Version 2:* 1/72-4/76. *Version 3:* 3/56-12/71.

Objectives: To train personnel to perform basic and advanced dental prosthetic laboratory techniques.

Instruction: *Version 1:* Lectures and practical exercises in basic and advanced dental prosthetic laboratory techniques. Course includes study of dental anatomy including immediate dentures, relines and rebases; removable partial dentures and fixed restorative procedures. *Version 2:* Complete maxillofacial prostheses; removable partial maxillofacial prostheses; orthodontic appliances; splints. *Version 3:* Dental materials; complete and partial dentures; fixed and removable partial dentures; inlays and crowns.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in complete dentures, 3 in partial dentures, 3 in fixed restorative, 1 in dental anatomy (tooth morphology) (6/77). *Version 2:* In the upper-division baccalaureate category, 5 semester hours in dental technology (7/74). *Version 3:* In the lower-division baccalaureate/associate degree category, 5 semester hours in dental technology (7/74); in the upper-division baccalaureate category, credit in dental laboratory technology on the basis of institutional evaluation (12/68).

Related Occupation Codes: 42D; 42F.

AR-0701-0007

Dental Specialist (Basic)
(Dental Assistant (Basic))
(Dental Specialist)

Course Number: 330-91E10; 330-91E20; 8-R-917.1; 8-E-21.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service, Ft. Sam Houston, TX.

Length: 6-8 weeks (196-211 hours).

Exhibit Dates: 1/56-Present.

Objectives: To provide enlisted personnel with a working knowledge of all procedures necessary to assist the dental officer in examination, care and treatment of the oral region.

Instruction: Lectures and practical experience in the basic principles of performing dental assisting duties, learning to expose, process, and mount dental radiographs for diagnostic value, mix commonly used dental restoration and impression materials, prepare instrument setups, and sterilize and disinfect used dental instruments.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic dental science, 3 in chairside assisting, 8 in clinical training, 1 in emergencies, 3 in dental radiology (6/77).

Related Occupation Codes: 91E; 42D.

AR-0701-0008

Dental Therapy Assistant

Course Number: 330-91E30; 330-F2.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 54 weeks (1470 hours).

Exhibit Dates: 10/74-4/78.

Objectives: To provide personnel with knowledge of the basic principles and techniques of the practice of dentistry and to enable them to assist dental officers in the care and treatment of patients, including specified reversible procedures performed on patients under direct supervision of dental officer.

Instruction: Lectures and clinical exercises in the duties of the dental therapy assistant, learning to apply rubber dam, place and finish restorations in cavity preparations in patients, perform functions in the areas of preventive dentistry, utilize techniques of four-handed dentistry, make preliminary impressions, pour casts, expose radiographs and panographic x-rays, perform endodontic procedures, and provide emergency care.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in dental material, 2 in dental health, 1 in four-handed dentistry, 8 in clinical training, 2 in related dental science (6/77).

Related Occupation Codes: 91E.

AR-0701-0009

Dental Specialist Reserve Component (Nonresident/Resident)

Course Number: 330-91E10(RC).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase II—2 weeks (70 hours).

Exhibit Dates: 1/78–Present.

Objectives: To provide prior-service reserve component enlisted personnel with a working knowledge of all procedures necessary to assist the dental officer in the examination, care, and treatment of the oral region.

Instruction: Phase II, the resident portion of the course, consists of conferences and practical exercises in basic dental sciences, radiology, materials, and records and also covers the duties of the dental specialist.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic dental science, 1 in dental materials (8/79). NOTE: Phase I is nonresident in nature with no credit recommendation. Credit recommendation is based on phase II only.

Related Occupation Codes: 91E.

AR-0701-0010

Dental Laboratory Specialist (Basic)
Reserve Component
(Nonresident/Resident)

Course Number: 331-42D10(RC).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase II—2 weeks (80 hours).

Exhibit Dates: 10/77–Present.

Objectives: To provide prior-service reserve component personnel with a working knowledge of basic dental laboratory procedures.

Instruction: Phase II, the resident portion of the course, consists of demonstrations, lectures, and examinations covering the basic dental laboratory procedures for the fabrication of preliminary and final dental casts, impression trays, occlusion rims, and denture repair.

Credit Recommendation: 3 semester hours in basic dental laboratory procedures (8/79). NOTE: Phase I of this course is non-resident in nature and carries no credit. Credit recommendation is based on Phase II only, the resident portion of the course.

Related Occupation Codes: 91E.

AR-0702-0001

1. Medical Laboratory Specialist Advanced
   (Medical Laboratory Procedures (Advanced))
2. Medical Laboratory Procedures (Advanced)
   (Medical Laboratory Specialist Advanced)

Course Number: *Version 1:* 311-92B30. *Version 2:* 8-R-931;2 8-E-26.

Location: *All Versions:* Brooke Army Medical Center, Ft. Sam Houston, TX. *Version 2:* Walter Reed Army Medical Center, Washington, DC.

Length: 48–50 weeks (1895–1992 hours).

Exhibit Dates: *Version 1:* 9/71–Present. *Version 2:* 1/55–8/71.

Objectives: To provide medical laboratory specialists with the knowledge and skills necessary to perform as technical specialists and/or laboratory supervisors.

Instruction: Lectures and practical experience in medical laboratory supervision, equipment use, clinical chemistry, microbiology, parasitology, hematology, urinalysis, histopathology, and cytotechnology and immunology.

Credit Recommendation: In the vocational certificate category, 30 semester hours in medical technology (2/74); in the lower-division baccalaureate/associate degree category, 30 semester hours in medical technology or 10 in biology or chemistry (2/74); in the upper-division baccalaureate category, 30 semester hours in medical technology or 10 in biology or chemistry (12/68).

Related Occupation Codes: 92B.

AR-0702-0002

Medical Laboratory Specialist
(Medical Laboratory Procedures (Basic))

Course Number: 311-92B10; 311-92B20; 311-92B10; 8-R-931.1; 8-E-8.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: 14–16 weeks (420–548 hours).

Exhibit Dates: 8/54–Present.

Objectives: To provide graduates with the necessary knowledge and techniques to perform basic procedures in a medical laboratory.

Instruction: Lectures and practical exercises in hematology, immunohematology, clinical chemistry, bacteriology, urinalysis, serology, and parasitology basic procedures.

Credit Recommendation: In the vocational certificate category, 10 semester hours in a certified laboratory assistant program (6/77); in the lower-division baccalaureate/associate degree category, 15 semester hours in basic procedures in hematology, clinical chemistry and urinalysis, medical bacteriology, parasitology, and immunohematology and serology in a Medical Laboratory Technician program (6/77).

Related Occupation Codes: 92B.

AR-0702-0003

Blood Grouping, Collecting and Processing

Course Number: 311-F1.

Location: Brooke Army Medical Center, Ft. Sam Houston, TX.

Length: 6 weeks (264 hours).

Exhibit Dates: 6/68–8/79.

Objectives: To provide enlisted personnel with the knowledge necessary to apply the principles and techniques of grouping, collecting, and processing whole blood on a large-volume basis.

Instruction: Lectures and practical exercises in selection of blood donors, collection of blood for transfusions, donor care, blood processing, and grouping and typing of blood.

Credit Recommendation: In the vocational certificate category, credit for blood banking portion of CLA course (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in blood banking (2/74); in the upper-division baccalaureate category, 2 semester hours in blood banking (12/68).

Related Occupation Codes: 92B.

AR-0702-0004

Blood Banking

Course Number: None.

Location: Medical Research Laboratory, Ft. Knox, KY.

Length: 52 weeks.

Exhibit Dates: 1/73–Present.

Objectives: To train medical laboratory personnel to direct and supervise blood bank centers and to assist in the training of others in blood bank techniques.

Instruction: Lectures on practical techniques, theory, administration, and management of large blood banks, including blood banking and immunohematology.

Credit Recommendation: In the vocational certificate category, credit for blood banking portion of CLA curriculum (2/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in blood banking (2/74); in the upper-division baccalaureate category, 8 semester hours in medical technology, 4 in biology (2/74).

AR-0702-0005

Dialysis Technician

Course Number: 300-F2.

Location: Walter Reed Army Medical Center, Washington, DC.

Length: *Version 1:* 20 weeks (800 hours). *Version 2:* 24 weeks (898–928 hours).

Exhibit Dates: *Version 1:* 9/77–Present. *Version 2:* 1/70–8/77.

Objectives: To provide selected personnel with knowledge and skills required to perform safe and effective hemodialysis and peritoneal dialysis.

Instruction: Lectures and practical exercises in theory and principles of hemodialysis, peritoneal dialysis, and intensive patient care.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in basic chemistry, 1 in management (8/79) in the upper-division baccalaureate category, 6 semester hours in clinical practice in renal pathology with emphasis on dialysis, 2 in renal pathology, 1 in renal physiology (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 22 semester hours in health sciences, renal dialysis, or circulatory system technology (6/75).

AR-0703-0001

Anesthesiology Nursing for Army
Nurse Corps Officers

Course Number: *Version 1:* 6F-66F. *Version 2:* None.

Location: *All Versions:* Army Hospitals, U.S.A.. *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 103 weeks (3064–3082 hours). *Version 2:* 82 weeks (3064–3082 hours).

Exhibit Dates: *Version 1:* 11/77–Present. *Version 2:* 12/70–10/77.

Objectives: To train Nurse Corps officers as beginning practitioners in anesthesiology nursing.

Instruction: *All Versions:* Lectures and practical exercises in anesthesiology nursing, including anatomy, physiology, pathophysiology and implications for practice; chemistry, physics, and mathematics related to anesthesia; pharmacology; professional practices of the nurse anesthetist; fundamentals of anesthesia; clinical orientation. *Version 1:* Instruction includes psychology of crisis intervention.

Credit Recommendation: *Version 1:* In the graduate degree category, 8 semester hours in physiology and anatomy of the respiratory system, 4 in statistics, 3 in chemistry/physics, 4 in pharmacology, 8 in anesthesiology, 3 in physical assessment, 3 in administration, and 1 in psychology (8/79). *Version 2:* In the vocational certificate category, 10 semester hours in anatomy and physiology, 2 in chemistry and physics, 4 in pharmacology, 5 in fundamentals of anesthesiology, 3 in physical education, 1 in psychology, 1 in medical mathematics, 45 in clinical experience and practice in anesthesiology (8/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in anatomy and physiology, 2 in chemistry and physics, 4 in pharmacology, 5 in fundamentals of anesthesiology, 3 in physical education, 1 in psychology, 1 in medical mathematics, 45 in clinical experience and practice in anesthesiology (8/74); in the upper-division baccalaureate category, 10 semester hours in anatomy and physiology, 2 in chemistry and physics, 4 in pharmacology, 5 in fundamentals of anesthesiology, 3 in physical education, 1 in psychology, 1 in medical mathematics, 45 in clinical experience and practice in anesthesiology (8/74).

AR-0703-0002

Chief Nurses' Orientation

Course Number: 6F-F2.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (67–73 hours).

Exhibit Dates: 8/73–Present.

Objectives: To provide nurse corps officers with the necessary knowledge and skills in resource management concepts and educational training activities to function as chief nurses in Army medical facilities.

Instruction: Lectures and seminars on utilization of resources, fundamentals of training management, staff development, parameters and standards of supervision, health care trends and concepts.

Credit Recommendation: Credit is not recommended because of the military nature of the course (6/75).

AR-0703-0003

Medical Department Officer Clinical Head Nurse

(Army Medical Department Clinical Head Nurse)

Course Number: 6F-F3.

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Brooke Army Medical Center, Ft. Sam Houston, TX.

Length: *Version 1:* 2-3 weeks (67–116 hours). *Version 2:* 3 weeks (116 hours).

Exhibit Dates: *Version 1:* 8/74–Present. *Version 2:* 6/71–7/74.

Objectives: To provide Army Nurse Corps officers with the supervisory and administrative knowledge and skills required for assignment as clinical head nurses.

Instruction: Lectures in planning and coordination of patient care, applied communication skills, personnel management, and facilities, supplies, and equipment management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in nursing (6/75). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in nursing (2/74).

AR-0703-0004

Health Nursing Orientation

Course Number: 6F-F1.

Location: Brooke Army Medical Center, Ft. Sam Houston, TX.

Length: 5 weeks (177 hours).

Exhibit Dates: 12/69–8/79.

Objectives: To provide nurse corps officers with a basic knowledge of health nursing and preventive medicine practices.

Instruction: Lectures and practical exercises in planning and provision for health nursing services; preventive dentistry; physical rehabilitation services; community mental health; socioeconomic implications of military family life; philosophy, principles, purpose, and evaluation of inservice education; methods and practices of preventive medicine; preventable diseases and injuries; Army veterinary service; participation in surveys, studies, and epidemiological investigations.

Credit Recommendation: In the upper-division baccalaureate category, credit in public health nursing on the basis of institutional evaluation (6/75).

AR-0703-0005

Medical Aidman (Basic)

Course Number: 8-E-24.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 12 weeks (280 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train enlisted personnel to perform as medical aidmen in field medical facilities.

Instruction: Lectures and practical exercises in field medical aid procedures, including advanced techniques and procedures in field surgery, principles of preventive medicine, dispensary and sick call procedures, basic anatomy and physiology, medical records, diagnostic and nursing procedures, and field sanitation procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in first aid and hygiene, 2 in physiology, and, on the basis of institutional evaluation, 6 in nursing (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in first aid and hygiene, 2 in physiology, and, on the basis of institutional evaluation, 6 in nursing (2/74); in the upper-division baccalaureate category, credit in first aid and hygiene on the basis of institutional evaluation (12/68).

AR-0703-0006

Army Nurse Corps Officer Orientation

(Army Nurse Corps Officer Basic)

Course Number: 8-A-C20C; 8-A-C1C.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 4–9 weeks (139–316 hours).

Exhibit Dates: 3/58–12/68.

Objectives: To provide newly commissioned Medical Service Corps and Army Nurse Corps officers with a basic knowledge of medical service organization and administration.

Instruction: Lectures and practical exercises in medical service organization and administration, including personnel management, medical supply procedures, medical records, mass casualties management, emergency medical treatment procedures, field medical service orientation, preventive medicine, principles of nursing administration, and duties and responsibilities of Medical Service Corps and Army Nurse Corps personnel.

Credit Recommendation: In the vocational certificate category, credit in nursing on the basis of institutional evaluation (2/74); in the lower-division baccalaureate/associate degree category, credit in nursing on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in nursing on the basis of institutional evaluation (12/68).

AR-0703-0007

Basic Medical Specialist

Course Number: 300-91B10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 6 weeks (237–247 hours). *Version 2:* 8 weeks (237–247 hours).

Exhibit Dates: *Version 1:* 6/78–Present. *Version 2:* 1/75–5/78.

Objectives: To provide enlisted personnel with the basic skills and knowledge required to perform emergency medical treatment and routine patient care.

Instruction: Lectures and practical exercises in basic medical-surgical foundations for emergency and patient care.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in emergency medical procedures-basic level (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to nursing procedures (6/77).

Related Occupation Codes: 91B; 91C; 91D; 91F; 91H; 91J; 91L; 91N; 91U; 91V; 91Y; 42C; 91G; 91P; 91Q.

AR-0703-0008

Neuropsychiatric Nursing

Course Number: 8-O-7.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 20 weeks (638–842 hours).

Exhibit Dates: 4/54–12/61.

Objectives: To train nurses to perform nursing duties in hospital psychiatric and neurological disease wards and to function as in-service training program instructors.

Instruction: Instruction in principles of neuropsychiatric nursing, with emphasis on interpersonal relationships, supervision and teaching in neuropsychiatric nursing; psychiatry; neurology; psychology; and psychiatric social work.

Credit Recommendation: In the upper-division baccalaureate category, 8 semester hours in abnormal psychology, 3 in occupational therapy, and credit in mental health or psychiatric nursing procedures on the basis of institutional evaluation (2/74).

AR-0703-0009

Military Nursing Advanced

Course Number: 8-A-C4C.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 22–23 weeks (714–734 hours).

Exhibit Dates: 3/58–12/68.

Objectives: To provide Nurse Corps officers with a working knowledge of the duties and responsibilities of nursing service personnel at all levels.

Instruction: Lectures and practical exercises in personnel administration, management of health care units, emergency medical treatment procedures, military science, neuropsychiatry, nursing science, and preventive medicine.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in nursing administration, 2 in hospital management, 2 in personnel management, and 6 in clinical practicum (6/75).

AR-0703-0010

Operating Room Nursing

Course Number: 6F-66E.

Location: *Version 6:* Academy of Health Sciences, Brooke Army Medical Center, Tacoma, WA; Madigan Army Medical Center, El Paso, TX; William Beaumont Army Medical Center, El Paso, TX. *All Versions:* Ft. Sam Houston, El Paso, TX.

Length: 16 weeks (585 hours).

Exhibit Dates: 8/78–Present.

Objectives: This course is designed to prepare junior Army Nurse Corps officers to function as entry-level nurses in the operating room.

Instruction: Classroom instruction and clinical demonstrations in principles of microbiology, sterilization, disinfection, sterilization and preparation of surgical supplies; operating oom room nursing and environmental control in hospital operating rooms; and the use of specialized equipment.

Credit Recommendation: RAD, 10 semester hours in operating room or medical/surgical nursing (8/79).

Related Occupation Codes: 66E; 66H; 66J.

AR-0703-0011

Nurse Practitioner—Pediatrics

Course Number: 6F-66D.

Location: Fitzsimmons Army Medical Center, Denver, CO.

Length: 22 weeks (504 hours).

Exhibit Dates: 11/77–Present.

Objectives: To prepare Army Nurse Corps officers to function as first-level pediatric nurse practitioners with the ability to assume increased responsibility for providing comprehensive health care for newborn infants, children, and adolescents in hospital and ambulatory care settings.

Instruction: Lectures, discussion, and clinical demonstrations in data gathering and physical assessment of the patient, health maintenance, human development, sick-childcare management and family socio-psychology.

Credit Recommendation: In the graduate degree category, 30 semester hours in graduate nurse practitioner education (8/79).

Related Occupation Codes: 66D.

AR-0703-0012

Nurse Practitioner—Obstetrics and Gynecology

Lectures and clinical demonstrations in assessment and care of the antepartum, postpartum, and selected gynecological patient, maternal and fetal monitoring and screening techniques, bio-psycho-social aspects of childbearing, childbearing family planning, sterility, abortion, patient and family counseling and education through the use of the nursing process.

Course Number: 6F-F4.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 22 weeks (820 hours).

Exhibit Dates: 8/77–Present.

Objectives: To prepare Army Nursing Corps officers to function as first-level nurse practitioners in obstetrics and gynecology.

Credit Recommendation: In the graduate degree category, 30 semester hours in nurse practitioner OB/GYN education (8/79).

AR-0703-0013

Nurse Practitioner Adult Medical-Surgical Health Care

Course Number: 6F-66H.

Location: Silas B. Hays Army Hospital, Ft. Ord, CA.

Length: 22 weeks (822 hours).

Exhibit Dates: 1/78–Present.

Objectives: To prepare Army Nurse Corps officers to work interdependently with the physician and other members of the health care team.

Instruction: Lectures, discussions and clinical experiences in the principles and practices of ambulatory health care including diagnostic, therapeutic, health maintenance and rehabilation for adult patients; pathophysiology of chronic disease.

Credit Recommendation: In the graduate degree category, 30 semester hours in nursing care for adults including 16 semester hours in gerontology for nurses, 11 in general adult nursing procedures and 3 in physical assessment (8/79).

AR-0703-0014

Intensive Care Nursing

Course Number: 6F-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 22 weeks (818 hours).

Exhibit Dates: 8/77–Present.

Objectives: To prepare the Army nurse to function in an intensive care setting.

Instruction: Lectures and clinical practicum in the care of the critically ill patient with pulmonary, cardiovascular, renal, hematologic, oncologic or neurological dysfunctions.

Credit Recommendation: In the graduate degree category, 5 semester credits in each of the following specialized nursing areas: pulmonary dysfunction, cardiovascular dysfunction, renal dysfunction, hematologic and oncologic dysfunction, neurological dysfunction and 6 in specialized clinic, for a total of 31 hours (8/79).

AR-0704-0001

1. Physical Therapy Specialist
2. Physical Therapy Aide
   (Physical Therapy Procedures)
   (Physical Therapy Specialist)
   (Physical Therapy Enlisted)

Course Number: *Version 1:* 303-91J10. *Version 2:* 303-91J20; 8-R-921:1 8-E-19.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 27 weeks (1034 hours). *Version 2:* 4–12 weeks (176–528 hours).

Exhibit Dates: *Version 1:* 11/74–Present. *Version 2:* 12/54–10/74.

Objectives: To provide qualified medical corpsmen with knowledge and skills in physical therapy techniques and to promote continuing education in the profession.

Instruction: *Version 1:* Lectures and practical exercises in functional anatomy and physiology; human growth and development; basic principles and clinical application of physical modalities; ethical standards and proper techniques of handling and positioning patients; therapeutic exercises; development of patient therapy programs. *Version 2:* Lectures and practical exercises in anatomy; muscle functions; handling and positioning of patients; concepts of ethical standards; therapeutical exercises and routines; reconditioning exercises; and physical therapy modalities and gait training.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in anatomy and physiology, 3 in general psychology, 13 in physical therapy principles and procedures and 10 in field experience (6/77); in the upper-division baccalaureate category, credit in anatomy, physiology, and physical therapy on the basis of institutional examination (6/77). *Version 2:* In the vocational certificate category, certificate in physical therapy and physical rehabilitation (2/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in physical therapy and physical rehabilitation (2/74); in the upper-division baccalaureate category, credit in anatomy, physiology, and physical therapy on the basis of institutional evaluation (12/68).

Related Occupation Codes: 91A; 91J.

AR-0704-0002

Occupational Therapy Procedures

Course Number: 8-E-23.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 12 weeks (352 hours).

Exhibit Dates: 10/54–12/68.

Objectives: To train enlisted personnel to assist occupational therapists, with emphasis on arts and crafts therapy techniques.

Instruction: Lectures and practical experience in the fundamentals of occupational therapy, including basic sciences, psychiatry, clinical therapy techniques, surgical conditions, social work, workshop activities, and therapy for tuberculars, the physically disabled, and neuropsychiatric and surgery patients.

Credit Recommendation: In the vocational certificate category, 15 semester hours in occupational therapy (2/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in occupational therapy and additional credit on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in occupational therapy on the basis of institutional evaluation (12/68).

AR-0704-0003

Physical Reconditioning Specialist

Course Number: 8-E-12.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 12 weeks (528 hours).

Exhibit Dates: 1/56–12/68.

Objectives: To train medical corpsmen as assistants in the physical reconditioning of medical, surgical, and neuropsychiatric patients.

Instruction: Lectures on anatomy and physiology; patient examinations; conditioning aquatics and exercises; functional anatomy and physical rehabilitation; medical ethics; resistive exercises and social work; medical and surgical conditions; and clinical observation.

Credit Recommendation: In the vocational certificate category, 15 semester hours in physical education instruction (2/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in physical therapy or physical and mental rehabilitation (2/74); in the upper-division baccalaureate category, 3 semester hours in physical education instruction (12/68).

AR-0704-0004

Occupational Therapy Specialist

Course Number: *Version 1:* 303-91L10. *Version 2:* 303-91L20.

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX; Selected Army Hospitals, Continental United States. *Version 2:* Valley Forge General Hospital, Phoenixville, PA.

Length: *Version 1:* 25 weeks (915 hours). *Version 2:* 21 weeks (716 hours).

Exhibit Dates: *Version 1:* 4/76–Present. *Version 2:* 2/73–3/76.

Objectives: To train enlisted personnel in the knowledge of physical and behavioral sciences; principles and concepts related to implementation of remedial, health maintenance, and preventive occupational therapy procedures.

Instruction: Lectures and practical exercises in anatomy and physiology, occupational therapy processes, psychology, and pathologic conditions as related to occupational therapy.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in anatomy and physiology, 3 in general psychology, 12 in occupational therapy techniques, 9 in field experience (6/77). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in general psychology, 12 in occupational therapy techniques, 6 in field experience (6/77).

Related Occupation Codes: 91L.

AR-0704-0005

Orthopedic Specialist

Course Number: 304-91H20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Selected Army Hospitals, Continental United States.

Length: 12 weeks (474 hours).

Exhibit Dates: 9/75-Present.

Objectives: To prepare individuals to assist physicians and nurses in the care and treatment of orthopedic patients.

Instruction: Lectures and clinical experiences in anatomy and physiology and the principles of orthopedic surgery including the preparation of patients for major surgical procedures and assisting the physician in minor surgical procedures; care and treatment of orthopedic patients to include giving proper instruction to patients such as care of casts and splints, proper crutch walking techniques and precautions; fabricating, modifying and applying plaster casts; applying casts and splints used in surgery; performing change of dressing, sterile scrubs and suture removal observing the principles of asepsis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy, 1 in physiology, 4 in principles of orthopedics and patient care, 4 in orthopedic methods and materials, 5 in clinical application of principles of orthopedics (6/77).

Related Occupation Codes: 91A; 91H.

AR-0704-0006

Orthotic Specialist
(Brace Specialist)

Course Number: 304-42C10; 304-42C20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Selected Army Hospitals, Continental United States.

Length: 52 weeks (2000-2100 hours).

Exhibit Dates: 5/77-Present.

Objectives: To prepare the individual to design, construct, fit, and repair orthotic devices.

Instruction: Lectures, shop, and clinical experiences in design, construction, fitting, and repair of orthotic devices. Student is provided with a working knowledge of medical terminology and definitions, anatomy and physiology as related to orthopedics; detailed instruction in kinesiology and biomechanics; and detailed instruction to include materials and hand tools and plastics in orthotics, shoe corrections and arch supports, plaster of Paris procedures, leather techniques, orthotics for body components to include spinal, lower-extremity and upper-extremity orthotics; and professional and administrative subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy, 1 in physiology, 1 in kinesiology, 24 in orthotic techniques, 6 in applied design, 2 in shop practices (6/77).

Related Occupation Codes: 42C; 91B.

AR-0704-0007

Respiratory Specialist

Course Number: 300-91V10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 32-37 weeks (1280-1440 hours).

Exhibit Dates: 4/76-Present.

Objectives: To provide specialists with basic knowledge of aerosol/humidity therapy, ventilation therapy, pulmonary function testing; infection control; cardiopulmonary drug administration and critical patient care performed under the supervision of a physician.

Instruction: Lectures, demonstrations, and practical exercises in selected basic science courses related to respiratory care, e.g., anatomy, respiration, physiology, pharmacology and microbiology, physical therapy, clinical medicine, and medical materiel management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in general chemistry-physics, 3 in cardiopulmonary physiology, 1 credit each for pharmocology, microbiology, and cardiopulmonary resuscitation, 3 for clinical medicine, 6 for inhalation therapy, and 9 in clinical experience, for a total of 30 hours in inhalation therapy (8/79). (6/77).

Related Occupation Codes: 91B; 91V.

AR-0705-0001

X-Ray Specialist
(Radiographic Procedures (Basic))
(X-Ray Procedures (Basic))
(X-Ray Specialist)

Course Number: *Version 1:* 313-91P10; 313-91P20; 8-R-935.1. *Version 2:* 8-E-4.

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Medical Field Service, Ft. Sam Houston, TX.

Length: *Version 1:* 19 weeks (722-836 hours). *Version 2:* 16 weeks (704 hours).

Exhibit Dates: *Version 1:* 1/58-Present. *Version 2:* 1/56-12/57.

Objectives: To provide enlisted personnel with a working knowledge of fundamental x-ray clinic procedures.

Instruction: Lectures and practical experience in the fundamentals of x-ray clinic operations and procedures, including applied anatomy and physiology, manual and automatic x-ray film processing, equipment operation and maintenance, sterile techniques and radiation safety measures, and diagnostic radiograph production.

Credit Recommendation: *Version 1:* In the vocational certificate category, certificate in radiologic technology (6/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 2 in medical terminology, 3 in radiographic physics, 4 in radiographic positioning, 3 in radiographic techniques, 2 in darkroom procedures, 3 in clinical internship (6/77). *Version 2:* In the vocational certificate category, certificate in x-ray technology (2/74); in the lower-division baccalaureate/associate degree category, 30 semester hours in x-ray technology (2/74); in the upper-division baccalaureate category, 3 semester hours in elementary anatomy (12/68).

Related Occupation Codes: 91P.

AR-0705-0002

X-Ray Techniques Advanced

Course Number: 8-E-38.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 20 weeks (880 hours).

Exhibit Dates: 3/56-12/68.

Objectives: To train x-ray specialists in the advanced techniques of radiology.

Instruction: Lectures and practical exercises in advanced x-ray techniques, including personnel management and administration, anatomy and physiology, x-ray technical teaching, calibration of x-ray apparatus, principles of radiographic exposure, and x-ray supply procedures.

Credit Recommendation: In the vocational certificate category, certificate in x-ray technology (2/74); in the lower-division baccalaureate/associate degree category, 45 semester hours in x-ray technology (2/74); in the upper-division baccalaureate category, 3 semester hours in physiology (12/68).

AR-0705-0003

Radiological Safety

Course Number: 7K-F3.

Location: Ordnance School, Aberdeen Proving Ground, MD; Chemical School, Ft. McClellan, AL.

Length: 3 weeks (112-116 hours).

Exhibit Dates: 3/70-Present.

Objectives: To provide officer, enlisted, and civilian personnel with basic instruction in radiological safety.

Instruction: Lectures in nuclear warfare and radiological defense, structure of matter, radioactivity, radiation units, nature of x-ray and gamma radiation, isotopes, charged particles shielding, radium hazards and controls, radiation detection basics, radiac instruments, safe handling and storage of radioactive materiel, nuclear reactors, and medical aspects of ionizing radiation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in radiologic safety (1/78).

Related Occupation Codes: 214E; 241F; 214G; 222B; 251B; 223B; 223D; 251D; 224B.

AR-0706-0001

Eye Specialist

Course Number: 300-91Y10; 300-91Y20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 13 weeks (520 hours).

Exhibit Dates: 4/75-Present.

Objectives: To provide personnel with a basic knowledge of eye care.

Instruction: Lectures, demonstrations, and practical exercises in anatomy, physiology, pharmacology, ophthalmology, optometry, and administrative care. Training includes applying general principles and techniques related to the care and treatment of eye patients; assisting the physician and/or optometrist in the care and treatment of eye patients; conducting visual measurements and diagnostic tests; administering prescribed medications; and performing first aid procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in anatomy and physiology, 4 in ophthalmology subjects, 2 in optometry subjects, 8 in clinical assistance in ophthalmology and optometry (6/77).

Related Occupation Codes: 91B; 91Y.

AR-0707-0001

1. Preventive Medicine Procedures (Advanced)
2. Preventive Medicine Procedures (Advanced)

(Preventive Medicine Advanced)

Course Number: *Version 1:* 322-91S20. *Version 2:* 8-R-933;2 8-E-36.

Location: *Version 1:* Brooke Army Medical Center, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX. *Version 2:* Medical Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 8-10 weeks (352-428 hours). *Version 2:* 16-20 weeks (704-880 hours).

Exhibit Dates: *Version 1:* 7/67-10/75. *Version 2:* 3/56-6/67.

Objectives: To provide preventive medicine specialists with advanced training in military preventive medicine.

Instruction: Study of the etiology of selected diseases and application of epidemiological principles in the control of each; planning and implementation of technical surveys and the solving of operational problems; preparation of environmental sanitation reports from raw data; bacteriological and/or chemical analyses of self-produced potable water from raw sources; assistance in surveys involving the operation and maintenance of manual and powered control equipment; planning and implementation of instructional training programs for field sanitation teams; and study and identification of the veterinary aspects of preventive medicine.

Credit Recommendation: *Version 1:* In the vocational certificate category, 30 semester hours in environmental health and sanitation (2/74); in the lower-division baccalaureate/associate degree category, 30 semester hours in environmental health and sanitation, and additional credit in environmental health and sanitation on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in sanitation and disease control (12/68). *Version 2:* In the vocational certificate category, 30 semester hours in environmental health and sanitation (2/74); in the lower-division baccalaureate/associate degree category, 30 semester hours in environmental health and sanitation, and additional credit in environmental health and sanitation on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 3 semester hours in sanitation and disease control (12/68).

Related Occupation Codes: 91S.

AR-0707-0002

Preventive Medicine Procedures (Basic)

(Preventive Medicine Specialist)
(Preventive Medicine Enlisted)

Course Number: 322-91S10; 8-E-20; 322-933.1; 8-R-933.1.

Location: Brooke Army Medical Center, Ft. Sam Houston, TX.

Length: 7-12 weeks (308-528 hours).

Exhibit Dates: 3/51-10/75.

Objectives: To provide enlisted personnel with comprehensive training in sanitation, preventive medicine, and environmental health.

Instruction: Lectures and practical experience in the collection of water samples for bacteriological analysis; recognition of sanitary deficiencies in water supplies; performance of water disinfection procedures; garrison and field waste-disposal methods; recognition and correction of sanitary deficiencies in food service facilities; identification, collection, preservation, and shipment of medically important arthropods; rodent control procedures; mixing and dispersing of pesticides; operation and maintenance of control equipment; and compilation of medical statistical data.

Credit Recommendation: In the vocational certificate category, 15 semester hours in sanitation and disease control (2/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in sanitation and disease control, additional credit on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 4 semester hours in sanitation and disease control (12/68).

Related Occupation Codes: 91S.

AR-0707-0003

Community Health and Environmental Science

Course Number: 6A-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (331 hours).

Exhibit Dates: 9/74-Present.

Objectives: To provide sanitary engineers and military environmental sanitarians, Medical Corps and Veterinary Corps officers, entomologists, and Nurse Corps officers with knowledge of military community health administration, infectious disease epidemiology and environmental health and engineering practice.

Instruction: Lectures and practical exercises for the four categories of individuals in common instruction elements and selected specific instruction elements unique to each of the four personnel categories—administration, infectious disease epidemiology, environmental health, and engineering.

Credit Recommendation: Credit is not recommended because of the professional nature of the course (6/75).

AR-0707-0004

Preventive Medicine Orientation

Course Number: 6A-F3; 6-B-F1; 8-A-F11; 8-O-36.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 6 weeks (210-226 hours).

Exhibit Dates: 6/54-Present.

Objectives: To provide medical officers with a basic working knowledge of military preventive medicine and environmental control functions.

Instruction: Classroom and practical instruction in preventive medicine, including environmental sanitation, occupational/industrial health, medical entomology, and disease and injury prevention.

Credit Recommendation: Credit is not recommended because of the professional nature of the course (6/75).

AR-0707-0005

Environmental Health Specialist

(Preventive Medicine Specialist)

Course Number: 322-91S10; 322-91S20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 15 weeks (557 hours).

Exhibit Dates: 8/75-Present.

Objectives: To train environmental health science specialists to identify and control specific environmental factors which affect the health of all personnel.

Instruction: Conferences, lectures, demonstrations, and practical exercises in the identification of sanitary deficiencies in water supply and waste water systems; inspection of and discrepancies in food service facilities; identification of hazards relating to the work environment in industrial, technical, and training areas; identification, collection, preservation and shipment of medically important arthropods and rodents; selection, safe handling, mixing, allocation and disposal of pesticides to include pest control procedures; performance of environmental health surveys; identification of potential health hazards in facilities producing ionizing and non-ionizing radiation; description of disease chain of transmission; and compilation of medical statistical data.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in sanitation and disease control, 15 in environmental health, 4 in environmental emergency science (6/77).

Related Occupation Codes: 09B; 09E; 91S.

AR-0707-0006

Community and Environmental Health Program Management

Course Number: 6A-F6.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (68 hours).

Exhibit Dates: 4/74-Present.

Objectives: To provide a working knowledge of the administrative, logistical, and managerial aspects of supervising, at the local level, a comprehensive program of environmental sciences and community services.

Instruction: Lectures, conferences, and case studies in health care administration, health, and the environment, including infectious disease control, health education, environmental protection, prevention of disease, pesticide management, community health, legal issues in health and environment, radiation protection and nuclear security, the OSHA Act of 1970, and the role of the veterinarian and hospital environment.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in environmental science or environmental health (6/77).

AR-0707-0007

Environmental Health Specialist Reserve Component (Nonresident/Resident)

Course Number: 322-91S10(RC).

Location: Phase II—Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase II—2 weeks (104 hours).

Exhibit Dates: 2/78-Present.

Objectives: To train selected reserve component enlisted personnel to perform environmental health duties in field units.

Instruction: Phase II, the resident portion of this course, consists of performance testing of critical tasks studied by correspondence during Phase I. Topics include environmental health engineering and sanitation and medical entomology.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in health and sanitary engineering, 3 in medical entomology (8/79). NOTE: Phase I of this course is nonresident in nature and carries no credit. Credit recommendation is based on only Phase II, the resident portion of the course.

Related Occupation Codes: 91S.

AR-0708-0001

Psychiatric Specialist
(Psychiatric Procedures (Basic))
(Neuropsychiatric Procedures (Basic))
(Neuropsychiatric Specialist)

Course Number: *Version 1:* 302-91F10; 302-91F20. *Version 2:* 302-91F20; 8-R-914.1 8-E-13.

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Oakland, CA; Naval Regional Medical Center, Portsmouth, VA; Naval Regional Medical Center, Continental U.S.A.; Civilian/Military Medical Facilities, Continental U.S.A.. *Version 2:* Medical Field Service School, Ft. Sam Houston, TX.

Length: 8-12 weeks (176-438 hours).

Exhibit Dates: *Version 1:* 1/69-Present. *Version 2:* 1/56-12/68.

Objectives: To provide nursing personnel with practical knowledge and skills to assist in the care and treatment of psychiatric patients.

Instruction: *Version 1:* Lectures and practical exercises in the performance of managerial, clerical and security duties of psychiatric attendants; identification, preparation, administration and observation for side effects of medication as required, observation, recording, and reporting of patient behavior, assistance in psychiatric therapies, evaluation and fulfillment of the physical and psychological nursing needs of psychiatric patients, behavioral recognition; therapeutic intervention procedures; lectures on understanding human development; etiology, dynamics and symptomatology of mental illness. *Version 2:* Principles and practices of neuropsychiatric patient care; psychiatric nomenclature; description of the psychiatric patient; recognition of abnormal behavior; anxiety, stress, and frustration; mechanism of defense; social and emotional aspects of illness.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in abnormal psychology, 3 in psychiatric nursing, 3 in psychiatric therapies, 5 in psychiatric or mental health clinical practice (6/77); in the upper-division baccalaureate category, credit in psychology and psychiatric nursing on the basis of institutional evaluation (6/77). *Version 2:* In the vocational certificate category, certificate in psychiatric assisting (2/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in psychiatric nursing (2/74); in the upper-division baccalaureate category, credit in psychiatric nursing on the basis of institutional evaluation (12/68).

Related Occupation Codes: 91F.

AR-0708-0002

Neuropsychiatric Techniques
(Advanced)

Course Number: 8-E-28.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 20 weeks (640 hours).

Exhibit Dates: 3/56-12/68.

Objectives: To provide psychiatric nurses with advanced training in neuropsychiatric techniques.

Instruction: Lectures and clinical experience in advanced neuropsychiatric techniques, including diagnostic and therapeutic techniques; review of anatomy and physiology of the nervous system; and care of patients with spinal cord injuries, back pain, epilepsy, or brain injury and diseases.

Credit Recommendation: In the vocational certificate category, certificate in psychiatric assisting (2/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in nursing, 15 in mental health technology (2/74); in the upper-division baccalaureate category, 3 semester hours in clinical psychology, 3 in psychiatry (12/68).

AR-0709-0001

Operating Room Specialist
(Operating Room Technician)
(Operating Room Procedures (Basic))

Course Number: 301-91D10; 301-91D20; 8-E-10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Brooke Medical Center, Ft. Sam Houston, TX; Selected Army Hospitals, Continental United States.

Length: *Version 1:* 12 weeks (538-580 hours). *Version 2:* 12-14 weeks (528-616 hours).

Exhibit Dates: *Version 1:* 4/67-Present. *Version 2:* 5/54-3/67.

Objectives: To train enlisted personnel in sterilization procedures, sterile technique, and patient care procedures in the operating room and central materiel section.

Instruction: *Version 1:* In Phase I (6 weeks) there are lectures and practical exercises in operating room and central materiel sterilization and sterile techniques; maintenance and practice of good surgical housekeeping and personal hygiene, identification of surgical instruments and supplies, maintenance and operation of operating room and central materiel equipment; safety, scrub and circulating techniques, operating room ethics and responsibilities to patients. In Phase II (6 weeks) there is supervised applicatory training in operating room and central materiel procedures and techniques. *Version 2:* Lectures and practical exercises in surgical suite housekeeping; sterile techniques; recognition of surgical instruments; operation and maintenance of operating room equipment; safety, scrub and circulating techniques; and surgical and anesthetical assistance.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures, 3 in basic surgical science procedures, 4 in basic operating room techniques for Phase I (6 weeks); 4 semester hours in operating room practicum for Phase II (6 weeks) (6/77); in the upper-division baccalaureate category, 1 semester hour in anatomy for Phase I and additional credit based on institutional examination for Phase I and Phase II (6/77). *Version 2:* In the vocational certificate category, certificate in operating room techniques (2/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in operating room techniques (2/74); in the upper-division baccalaureate category, 2 semester hours in physiology and hygiene (12/68).

Related Occupation Codes: 91A; 91D.

AR-0709-0002

Ear, Nose, and Throat Specialist
(Eye, Ear, Nose, and Throat Specialist)

Course Number: 300-91U10; 300-91U20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Selected Army Medical Centers and Activities, Continental U.S..

Length: Phase I: 4 weeks; Phase II: 9 weeks (492-528 hours).

Exhibit Dates: *Version 1:* 5/75-Present. *Version 2:* 6/67-4/75.

Objectives: To train enlisted personnel to assist physicians and nurses in specialized outpatient services.

Instruction: Lectures and practical exercises in sterile techniques, audiometric and optical examinations, administration of medications, preparation and safeguarding of medical records, ordering and storing medical supplies, and identification and care of specialized instruments and equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in anatomy and physiology, 3 in principles of otolaryngology, 4 in practicum in otolaryngology (6/77). *Version 2:* In the vocational certificate category, credit in medical assisting or health optics on the basis of institutional evaluation (2/74); in the lower-division baccalaureate/associate degree category, credit in medical assisting or health optics on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in medical technology on the basis of institutional evaluation (12/68).

Related Occupation Codes: 91B, 91U.

AR-0709-0003

Medical Specialist
(Medical Technician)

Course Number: 8-E-6.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 12-14 weeks (140-219 hours).

Exhibit Dates: 4/54-12/68.

Objectives: To train medical corpsmen and aidmen as assistants in hospital, clinical, and medical patient care and treatment.

Instruction: Academic study in professional sciences; surgical nursing care procedures; functions of neuropsychiatry; medical rotation techniques and procedures.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in physiology and hygiene (12/68).

AR-0709-0004

Orthopedic Laboratory Procedures
(Orthopedic Specialist)

Course Number: 8-R-451.1; 8-E-33.

Location: *Version 1:* Medical Service School, Ft. Sam Houston, TX. *Version 2:* Walter Reed Hospital, Washington, DC.

Length: 4 weeks (88 hours).

Exhibit Dates: 1/56-12/68.

Objectives: To train enlisted personnel to assist in fabricating, repairing, and adjusting casts and orthopedic devices.

Instruction: Lectures and practical exercises in the fundamentals of orthopedic laboratory procedures, including anatomy, medical terminology, orthopedic conditions, care and handling of orthopedic patients, and methods and materials used for orthopedic appliances.

Credit Recommendation: In the vocational certificate category, credit in orthopedic assisting on the basis of institutional evaluation (2/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in orthopedic assisting (2/74).

AR-0709-0005

Pharmacy Specialist

Course Number: 312-91Q10; 8-R-932.2.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: 17-18 weeks (570-680 hours).

Exhibit Dates: 8/66-Present.

Objectives: To provide pharmacy auxiliary personnel with a working knowledge of drugs, their sources, preparation, uses, incompatibilities and doses; pharmaceutical symbols and terms; and storage, control procedures and dispensing procedures performed under the supervision of a pharmacist or physician.

Instruction: Lectures and practical experience in the fundamentals of pharmacy, including manufacture and labeling of pharmaceutical prescriptions, preparation of common drugs and medicines, use of pharmaceutical reference texts, and applied accounting and control procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in pharmacy assisting, additional credit (up to 15 semester hours) on the basis of institutional evaluation (6/77); in the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory, 2 in pharmaceutical mathematics (6/77).

Related Occupation Codes: 91Q.

AR-0709-0006

Special Forces Aidman (Airborne)

Course Number: 300-F1.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 19 weeks (572 hours). *Version 2:* 17 weeks (440 hours).

Exhibit Dates: *Version 1:* 8/72–Present. *Version 2:* 4/66–7/72.

Objectives: To provide medical corpsmen with specialized knowledge of the procedures and techniques necessary to function independently in emergency situations.

Instruction: Medical and dental diagnosis; psychiatric and dental emergency treatment; clinical laboratory techniques; emergency surgical procedures; preventive medicine techniques; field emergency medical, surgical and nursing care and treatment; principles of pharmacology.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in medical laboratory procedures, credit in nursing or physician assisting on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in medical laboratory procedures, credit in nursing or physician assisting on the basis of institutional evaluation (2/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in medical laboratory procedures, credit in nursing or physician assisting on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 3 semester hours in physiology and hygiene, 2 in medical laboratory procedures (12/68).

Related Occupation Codes: 91A; 91B.

AR-0709-0007

Medical Aidman (Advanced)

Course Number: 8-E-25.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 20 weeks (330 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train medical aidmen in the advanced techniques and procedures of field medicine, surgery, and triage as an assistant to the medical officer.

Instruction: Lectures and practical exercises in field medicine, surgery, preventive medicine, pharmacology, dispensary and sick call procedures, field sanitation, and medical records and supply.

Credit Recommendation: In the vocational certificate category, 30 semester hours in medical assisting, physician assisting, or emergency service technology (2/74); in the lower-division baccalaureate/associate degree category, 30 semester hours in medical assisting, physician assisting, or emergency service technology, and additional credit on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 3 semester hours in physiology and hygiene (12/68).

AR-0709-0008

Electroencephalographic Procedures
(Electroencephalographic Specialist)

Course Number: 8-R-914.3; 8-E-14.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 8 weeks (352 hours).

Exhibit Dates: 1/56–12/68.

Objectives: To train medical corpsmen in electroencephalography laboratory procedures and equipment operation and maintenance.

Instruction: Lectures and practical experience in the fundamentals of electroencephalography laboratory procedures and techniques, including electroencephalographic equipment maintenance, production and interpretation of EEG readings, and the standardization of four- and six-channel EEGs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in psychiatric assisting (2/74); in the upper-division baccalaureate category, 8 semester hours in psychiatric assisting (2/74).

AR-0709-0009

1. Clinical Specialist
2. Clinical Specialist
3. Medical Specialist (Advanced)

Course Number: *All Versions:* 6H-011A. *Version 1:* 300-91C10. *Version 2:* 300-91C20. *Version 3:* 8-R-911.3.

Location: Army Hospitals, Continental United States.

Length: 40 weeks (1372–1760 hours).

Exhibit Dates: *Version 1:* 4/76–Present. *Version 2:* 6/68–3/76. *Version 3:* 2/61–5/68.

Objectives: To provide medical specialists with the advanced skills and knowledge necessary to supervise and perform patient-care duties appropriate to hospital and field medical assistants

Instruction: *Version 1:* Study of basic principles of management and administration including personnel development; professional nursing sciences; pharmacology in patient care; basic principles of health and environment related to Army medical field service; fundamental clinical experience emphasizing medical and surgical patient care including surgical follow-through, plus immediate postoperative care as well as ambulatory patient, maternal and newborn patient, and pediatric patient care. *Version 2:* Study of the basic principles of management and administration, including personnel, equipment, and ward organization; medical management of mass disaster casualties; emergency medical and dental recognition and treatment; military preventive medicine; pharmacology in patient care; advanced principles and practice of total patient care; medical-surgical nursing; intensive care nursing; principles and procedures of prenatal, neonatal, and postnatal care; pediatric care; dispensary procedures; development of advanced medical specialist skills in operating room; general knowledge of specialized nursing, i.e., rehabilitation and cancer nursing. *Version 3:* Study of the basic principles of management and administration, including personnel, equipment, and ward organization; medical management of mass disaster casualties; emergency medical and dental recognition and treatment; military preventive medicine; pharmacology in patient care; advanced principles and practice of total patient care; medical-surgical nursing; intensive care nursing; principles and procedures of prenatal, neonatal, and postnatal care; pediatric care; dispensary procedures; development of advanced medical specialist skills in operating room; general knowledge of specialized nursing, i.e., rehabilitation and cancer nursing.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 12 semester hours in clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy amd physiology, 3 in maternal and child nursing, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, 1 in psychiatric medicine, 3 in environmental health (6/77). *Version 2:* In the lower-division baccalaureate/associate degree category, 30 semester hours in physician assisting (2/74); in the upper-division baccalaureate category, 3 semester hours in first aid, 2 in nursing management, and, for students enrolled in nursing programs, additional credit in medical-surgical nursing on the basis of institutional evaluation (9/71). *Version 3:* In the lower-division baccalaureate/associate degree category, 60 semester hours in physician assisting (2/74); in the upper-division baccalaureate category, 2 semester hours in first aid, 2 in nursing management, and credit in physiology on the basis of institutional evaluation (12/68).

Related Occupation Codes: 91B; 91C; 91Z.

AR-0709-0010

Physician's Assistant

Course Number: 6H-011A; 6H-911A.

Location: Academy of Health Sciences (See Version 1 Instruction section), Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 104 weeks (3645 hours). *Version 2:* 72 weeks (2900 hours).

Exhibit Dates: *Version 1:* 7/75–Present. *Version 2:* 6/71–6/75.

Objectives: To provide students with the skills and knowledge of fundamental medical processing procedures and techniques necessary to assume the duties and responsibilities of physician assistants.

Instruction: *All Versions:* Lectures and practical exercises in behavioral sciences, basic sciences, dental sciences, health care administration, medicine and surgery, military sciences, preventive medicine, and pathology and laboratory sciences. *Version 1:* Includes 52 weeks of didactic (classroom) instruction at the Academy of Health Sciences followed by 52 weeks of clinical practicum at selected Army Medical Centers.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 60 semester hours in physician assisting (6/77). *Version 2:* In the lower-division baccalaureate/associate degree category, 60 semester hours in physician assisting (2/74); in the upper-division baccalaureate category, credit in physician assisting on the basis of institutional evaluation (2/74).

AR-0709-0011

Battalion Surgeon Assistant

Course Number: 7M-F4.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 4 weeks (140 hours).

Exhibit Dates: 3/66–12/68.

Objectives: To train medical service officers to assist in routine patient care and emergency treatment.

Instruction: Lectures and practical exercises in common disease diagnosis and care; nursing care procedures; emergency medical apparatus usage; emergency treatment of combat casualties; communicable disease control measures and environmental sanitation methods; familiarization with psychiatric and neurological problems; and description, uses, and dosages of various drugs.

Credit Recommendation: In the vocational certificate category, 2 semester hours in first aid or hygiene (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in first aid or hygiene (2/74); in the upper-division baccalaureate category, 2 semester hours in first aid or hygiene (12/68).

AR-0709-0012

Memorial Activities

Course Number: *All Versions:* 492-57F20. *Version 2:* 10-R-547.1.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 6 weeks (192–273 hours). *Version 2:* 8 weeks (352 hours).

Exhibit Dates: *Version 1:* 12/68–Present. *Version 2:* 8/60–11/68.

Objectives: To train enlisted personnel to search for, recover, evacuate, identify, and make disposition of deceased personnel.

Instruction: Lectures and practical exercises in search, recovery, evacuation, and disposition operations, including logistics, map reading and air crash recovery; identification by fingerprinting, dental charts, anatomy and skeletal assembly; and cemetery operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in mortuary science or forensic science (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in mortuary science or forensic science (6/74); in the upper-division baccalaureate category, 2 semester hours in mortuary science or forensic science (6/74). *Version 2:* In the vocational certificate category, 8 semester hours in mortuary science or forensic science (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in mortuary science or forensic science (6/74); in the upper-division baccalaureate category, 2 semester hours in mortuary science or forensic science (6/74).

Related Occupation Codes: 57F.

AR-0709-0013

Patient Administration

Course Number: 7M-F3; 8-A-F18.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: 7–8 weeks (244 ND 293 hours).

Exhibit Dates: *Version 1:* 6/78–Present. *Version 2:* 1/64–5/78.

Objectives: To train medical service officers in the principles and procedures required for administration of patients in Army medical treatment facilities.

Instruction: *Version 1:* Lectures and practical exercises in the principles and procedures required for the administration of patients in Army Medical Treatment facilities, including patient administration, health care organization and analysis, and human resources management. *Version 2:* Lectures and practical exercises in the principles and procedures required for administration of patients in Army medical treatment facilities, including patient administration, medical and military law, special aspects of medical materiel management, personnel management, resource management and operations research, introduction to dental and medical science, introduction to anatomy and physiology, neuropsychiatric services, nursing services, and military community health, and aeromedical evacuation.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in administration and management procedures, 1 in health care organization, and 1 in human resources management (8/79). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in hospital administration (7/74).

AR-0709-0014

Army Dietetic Internship

Course Number: None.

Location: Brooke Army Medical Center, Ft. Sam Houston, TX; Walter Reed Army Medical Center, Washington, DC.

Length: 39 weeks (1432 hours).

Exhibit Dates: 3/74–Present.

Objectives: To provide learning experiences for dietetic internship-qualified candidates to gain competency for practice of dietetics.

Instruction: Lectures and practical exercises in hospital dietetics, equipment management, financial management, menu planning, nutritional care, personnel management, quantity food production, safety procedures, sanitation procedures, security procedures, space design, and subsistence management.

Credit Recommendation: Credit is not recommended because of the professional nature of the course (6/75).

AR-0709-0015

Optical Laboratory Specialist

Course Number: 311-42E20.

Location: Medical Equipment and Optical Shcool, Denver, CO.

Length: 21 weeks (756 hours).

Exhibit Dates: 2/74–Present.

Objectives: To provide students with a theoretical basis and working knowledge of ophthalmic optics, optical laboratory procedures, and optical equipment to fabricate prescribed eyewear.

Instruction: Lectures and practical exercises to include prescription analysis; laboratory procedures in surfacing and fabrication of eyewear; skill development; lens verification; equipment maintenance and repair; and safety precautions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in introduction to the field of ophthalmic optics, 5 in introduction to lens surfacing procedures, 3 in pre-surfacing laboratory procedures, 12 in surfacing and fabrication technology, and 5 in laboratory production experience (10/75).

AR-0709-0016

Allergy-Clinical Immunology Specialist

Course Number: 300-F4.

Location: Walter Reed Army Medical Center, Washington, DC.

Length: 8 weeks (301 hours).

Exhibit Dates: 11/75–Present.

Objectives: To train individuals to assist in the specialized field of allergy-immunology.

Instruction: Lectures, laboratory, and clinical experience to include clinical administration, allergy-clinical immunology, basic sciences, immunoglobulins and mediators of hypersensitivity, allergic manifestations and treatment, diagnostic procedures, preparation of allergen extracts and clinical rotations through allergy-immunization clinic, allergen extract laboratory, allergy-immunology research laboratory, pulmonary function laboratory, and physical medicine service.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in anatomy and physiology of allergies, 2 in allergy symptoms, 1 in allergy extracts, 3 in allergy clinic (6/77).

Related Occupation Codes: 91B; 91C.

AR-0709-0017

Pharmacy Sterile Products

Course Number: 312-F1; 6H-68H.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Selfpaced, maximum weeks (83 hours). *Version 2:* 2 weeks (70 hours).

Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 5/75–2/78.

Objectives: To provide pharmacy personnel with a working knowledge of the techniques, procedures, and administrative functions involved in preparing sterile products.

Instruction: Lectures, demonstrations, and practical exercises relative to the work environment, the preparation, calculation, and administration of sterile products, and the management of a pharmacy sterile product section.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in specialized pharmacy or pharmaceutical chemistry (8/79). *Version 2:* In the upper-division baccalaureate category, credit on the basis of institutional evaluation (6/77).

Related Occupation Codes: 91Q.

AR-0709-0018

Automated Military Outpatient System (AMOSIST) Training

Course Number: 300-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 12 weeks (468 hours).

Exhibit Dates: 1/76–Present.

Objectives: To provide training to insure quality health care for adult walk-in patients by triaging to appropriate health care provider.

Instruction: Practical exercises and lectures to include elementary diagnosis, anatomy and physiology, first aid, patient management. Course is conducted in three phases, a didactic phase followed by two phases of practical experience under close supervision of physicians and certified AMOSISTs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 1 in medical care management for completion of the two-week Phase I; 2 semester hours in medical care internship for the three-week Phase II; 3 semester hours in medical care internship for the seven-week Phase III.

Related Occupation Codes: 91B; 91C.

AR-0709-0019

Clinical Specialist (Primary Technical)

Course Number: 300-91C20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Selected Medical Centers, Continental United States.

Length: 16 weeks (592 hours).

Exhibit Dates: 6/77–Present.

Objectives: To provide medical specialists with the skills and techniques required to perform duties in therapy and preventive and emergency care.

Instruction: Study of the basic principles of ethical medic-legal responsibilities, structure, and duties of the department of nursing; principles of medical records; measurement of temperature, pulse, respirations and blood pressure; recognition of signs and symptoms and needs of the patients; demonstration of medical and surgical asepsis; pre- and post-operative care of the surgical patient; care of the immobilized patient; identification of simple disorders of the skin; nursing procedures for respiratory conditions; digestive disorders and disorders of the bowel; psychosocial acceptance of death and dying; postmortem care; assisting with physical examination; collection and storage of specimens; recognition of EENT conditions; basic cardiopulmonary resuscitation techniques; recognition of anaphylactic shock; immunization techniques and principles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in physician assisting (6/77); in the upper-division baccalaureate category, 2 semester hours in first aid, 2 in nursing procedures (6/77).

Related Occupation Codes: 91B; 91C.

AR-0709-0020

Patient Administration Reserve Component (Nonresident/Resident)

Course Number: 7M-F3(RC).

Location: Phase II—Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase II—2 weeks (71 hours).

Exhibit Dates: 10/77–Presen

Objectives: To provide medical science reserve officers with a working knowledge of Army procedures for patient administration.

Instruction: Phase II, the resident portion of this course, consists of conferences and practical exercises in Army medical patient administration procedures, including admissions and disposition reports and medical statistical reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in medical records technology or health care management (8/79). NOTE: Phase I of this course is nonresident in nature. Credit recommendation is based on only Phase II, the resident portion of this course.

Related Occupation Codes: 67E.

AR-0709-0021

Patient Administration Specialist Reserve Component (Nonresident/Resident)

Course Number: 513-71G10(RC).

Location: Phase II—Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase II—2 weeks (72 hours).

Exhibit Dates: 10/77–Present.

Objectives: To provide enlisted personnel with a working knowledge of basic administrative procedures associated with the hospitalization of patients in an Army facility.

Instruction: Lectures and practical exercises in administration procedures and maintenance, and disposition of patient medical records in an Army facility.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in medical records technology or health care management (8/79).

Related Occupation Codes: 71G.

AR-0709-0022

Orientation to Army Medical Department (AMEDD) Pharmacy Services

Course Number: 6-8-C26.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length. 2 weeks (75–78 hours).

Exhibit Dates: 2/76–Present.

Objectives: To provide newly commissioned pharmacy officers with a general knowledge of the organization and operation of an AMEDD pharmacy service and the responsibilities and duties of an AMEDD officer.

Instruction: Lectures and classroom discussion on administrative and managerial problem solving and utilization of management principles for development of subordinate staff and the hospital organization.

Credit Recommendation: No credit is recommended because of the limited, specialized nature of the course. (8/79).

Related Occupation Codes: 3318; 3506.

AR-0709-0023

Cardiac Specialist

Course Number: 303-91N10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 4 weeks (142 hours).

Exhibit Dates: 11/76–Present.

Objectives: To provide skills and knowledge of fundamental techniques necessary to assume duties and responsibilities of the cardiac specialist.

Instruction: *All Versions:* Lectures and clinical practicum in electrocardiogram techniques, equipment maintenance, cardiac arrest procedures, and management of a heart station. *Version 1:* Training for Army includes Telescope mount, periscope (passive) and mount and panel assemblies. Note: Course is 14 weeks long for Marine enlisted personnel. Army and Marine personnel who have completed Module 201 at Ft. Jackson, SC will complete

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electrocardiography, 2 in clinical practice in electrocardiography, and 1 in anatomy and physiology of the cardiovascular system (8/79).

AR-0799-0001

Army Medical Department (AMEDD) Officer Orientation (MSC) (Medical Department Officer Orientation (MSC))

Course Number: 6-8-C21.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Brooke Army Medical Center, Ft. Sam Houston, TX.

Length: 4–5 weeks (143–179 hours).

Exhibit Dates: 6/69–Present.

Objectives: To provide medical service corps officers with a basic general knowledge of military medical service.

Instruction: Functions of dental service; professional medical problems in field service; principles of disease prevention; leadership of medical units; planning and supervision of unit training of medical troops; and medical unit administration and supply.

Credit Recommendation: Credit is not recommended because of the military nature of the course (6/75).

AR-0799-0002

Army Medical Service (AMEDS) Noncommissioned Officer (NCO)

Course Number: 513-F1; 8-R-F10; 8-E-17.

Location: Medical Service School, Ft Sam Houston, TX.

Length: 12–15 weeks (528–660 hours).

Exhibit Dates: 9/56–Present.

Objectives: To provide noncommissioned officers with the knowledge and skills necessary to become assistant hospital administrators.

Instruction: Lectures and practical exercises in the fundamentals of hospital administration, including personnel and resource management, organization and supervision of departments and staff sections, coordination of staff activities, and hospital missions organization and functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 30 semester hours in hospital administration (2/74); in the upper-division baccalaureate category, 3 semester hours in hospital administration, 2 in first aid and hygiene (12/68).

AR-0799-0003

Advanced Nursing Administration

Course Number: *Version 1:* 8-A-3430. *Version 2:* 8-O-27.

Location: Medical Service School, Ft Sam Houston, TX.

Length: *Version 1:* 27 weeks (1188 hours). *Version 2:* 23 weeks (734 hours).

Exhibit Dates: *Version 1:* 7/58–12/68. *Version 2:* 4/54–6/58.

Objectives: To provide selected nurses with advanced medical training, enabling them to qualify as hospital assistants or chief nurses.

Instruction: Lectures and practical experience in personnel and nursing management; medical, hospital, and nursing administration; nursing station and services; medical records and law; statistics; written and oral communication; human relations; supply principles and procedures; and teaching and research in nursing.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in nursing administration, 2 in hospital management, 2 in personnel management, and credit in instructional methods on the basis of institutional evaluation (12/68). *Version 2:* In the lower-division baccalaureate/associate degree category, 14 semester hours in nursing administration

(2/74); in the upper-division baccalaureate category, 6 semester hours in nursing administration, 3 in hospital management, 3 in personnel management, 2 in instructional methods, and credit in speech on the basis of institutional evaluation (12/68).

AR-0799-0004

Army Medical Department (AMEDD) Reserve Component General Staff

Course Number: 7M-F1(RC); 7M-F1.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (74 hours).

Exhibit Dates: 5/75–Present.

Objectives: To provide information related to the performance of duties associated with command and staff positions for Army medical department reserve component officers.

Instruction: Lectures and practical exercises in health care delivery in the Army, health and environmental sciences, and health care administration.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/75).

AR-0799-0005

Army Aviation Medicine (Basic)

Course Number: 6A-3160; 1-A-3160.

Location: Aviation School, Ft. Rucker, AL.

Length: 4–7 weeks (148–261 hours).

Exhibit Dates: 4/64–Present.

Objectives: To provide Medical Corps officers with a working knowledge of aviation medicine.

Instruction: Lectures and practical exercises in administration, medical flying standards, aeromedical problems associated with flying, tactics on various aircraft, and operation of flying units.

Credit Recommendation: Credit is not recommended because of the professional nature of the course (6/75).

AR-0799-0006

Clinical Technician

Course Number: 8-E-18.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 48 weeks (1440 hours).

Exhibit Dates: 1/54–12/56.

Objectives: To train enlisted personnel in advanced nursing procedures and ward management functions.

Instruction: Principles and procedures of patient care; common diseases; personal and community health; body structure and function; first aid; care of neuropsychiatric patients; child care; clinical application in care of medical, surgical, neurosurgical, outpatient, and orthopedic patients; clinical application in mother and child care.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and hygiene, and additional credit in physiology on the basis of institutional evaluation (12/68).

AR-0799-0007

Essential Medical Training for Army Medical Department (AMEDD) Aviators Nonresident/Resident

(Essential Medical Training for Army Medical Department (AMEDD) Aviators Associate)

Course Number: 2C-F7(RC); 2C-F7(R).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: In residence 2 weeks (80 hours).

Exhibit Dates: 11/74–Present.

Objectives: To provide AMEDD aviators with general knowledge about the medical problems encountered in the aeromedical evacuation of the sick and wounded.

Instruction: The course consists of a 54-hour nonresident phase of correspondence study and a 2-week resident phase of lectures and practical exercises in elementary diagnosis, emergency medical treatment procedures, and medical support in the theater of operations. Credit recommendation is based on resident phase.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in emergency medical care, 2 in anatomy and physiology (6/77).

AR-0799-0008

AMEDD Officer Advanced Nonresident/Resident

(Army Medical Department Officer Advanced Nonresident/Resident)

Course Number: 6-8-C22(RC).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: In residence 2 weeks (75 hours).

Exhibit Dates: 11/74–Present.

Objectives: To provide selected Reserve medical officers with a knowledge of AMEDD command and staff duties.

Instruction: The course consists of an 84-hour nonresident (correspondence) phase prerequisite to 75-hour (two week) formal resident phase. Phase I includes subject matter generally unique to the Army Medical Department and some, such as preventive medicine, with wider applicability. Phase II emphasizes military application and description of military organizational function, with some wider range of content relating to matter of public health, such as geographic distribution of disease.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/77).

AR-0799-0009

Drug and Alcohol Rehabilitation

Course Number: 5H-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (70 hours).

Exhibit Dates: 7/76–Present.

Objectives: To provide selected personnel with training related to the rehabilitation of individuals with drug and alcohol problems.

Instruction: Lectures and practical experiences in applying basic skills on individual counseling techniques and small-group leadership skills in drug and alcohol treatment settings; psychosocial and medical aspects of drug and alcohol abuse; treatment and rehabilitation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in drug/alcohol abuse overview (6/77).

AR-0799-0010

Alcohol and Drug Abuse Team

Course Number: 5H-F2.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (70 hours).

Exhibit Dates: 7/76–Present.

Objectives: To prepare personnel for duties on alcohol and drug abuse teams.

Instruction: Lectures and practical exercises in drug/alcohol abuse problem identification, treatment, rehabilitation, and prevention.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in drug and alcohol abuse overview (6/77).

AR-0799-0012

Army Medical Department (AMEDD) Noncommissioned Officer (NCO) Advanced

Course Number: 6-8-C42.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 10–12 weeks (414–505 hours). *Version 2:* 12 weeks (410 hours).

Exhibit Dates: *Version 1:* 5/78–Present. *Version 2:* 5/75–4/78.

Objectives: To train selected noncommissioned officers to assume responsibilities and duties required of a Army Medical Departmentment non-commissioned officer.

Instruction: *Version 1:* Lectures, conferences, and practical exercises in the behavorial sciences, preventative medicine and health care administration, military science, and management of a health care facility. The course has a common base and then splits up into four MOS speciality areas including dental science, health care administration, military science, and food service specialist. *Version 2:* Lectures and practical exercises in human relations, medical effects of radiation from nuclear accidents or incidents, occupational safety and health, management and administration of medical facilities and organizations, and military medical support operations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in heaith care management and preventative medicine, 3 in military science, and 1 in behavioral science. For those students completing 91E or 42D, an additional 3 semester hours in dental administration; for those completing 76J, an additional 7 credits in business management; for those completing 91B, an additional 3 credits in military science, and for those completing 94F, and additional 4 credits in food service administration (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in radiation hazard control, 2 in principles of management, 2 in oral communication, 1 in health care management (6/77).

Related Occupation Codes: 35G; 71G; 76J; 94F; 92B; 42D; 42E; 35S; 35T; 01H.

AR-0799-0013

Army Medical Department (AMEDD) Executive Management Program

Course Number: 7M-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Brooke Army Medical Center, Ft. Sam Houston, TX.

Length: 2 weeks (83 hours).

Exhibit Dates: 7/70–Present.

Objectives: To prepare officers to perform as commanders and administrators of hospitals and medical departments.

Instruction: Lectures and classroom discussion on health care administration, resource management and patient management. Students also review case studies in management of a hospital facility.

Credit Recommendation: In the graduate degree category, 6 semester hours in hospital administration (8/79).

AR-0799-0014

Army Medical Department (AMEDD) Graduate Medical Education (GME) Program Command and Staff

Course Number: 6-8-C24.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (72 hours).

Exhibit Dates: 6/77–Present.

Objectives: To provide Army medical specialists with a general knowledge of command and staff principles.

Instruction: Lectures conferences and practical exercises in command and staff management functions including health and environment, health care administration, resource management systems and military science.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/79).

AR-0801-0001

Essential Medical Training for AMEDS (Army Medical Service) Aviators

Course Number: 2-C-F7.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: 4 weeks (116–150 hours).

Exhibit Dates: 1/65–Present.

Objectives: To train Medical Service Corps personnel in first aid procedures for sick and wounded.

Instruction: Lectures and practical exercises in first aid procedures, including basic anatomy and physiology review, basic pharmacology, emergency treatment procedures, basic nursing care, aeromedical evacuation, transporting casualties, combat psychiatry, chemical and biological warfare casualty management, and preventive medicine and environmental sanitation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in first aid (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in first aid (2/74); in the upper-division baccalaureate category, 2 semester hours in first aid (12/68).

AR-0801-0002

Hazardous Devices

Course Number: None.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 3 weeks (114–115 hours).

Exhibit Dates: 10/72–Present.

Objectives: To train civilian public safety personnel to cope with the dangers of improvised explosive and incendiary devices.

Instruction: Lectures and practical exercises in the functions of hazardous devices, demolition procedures, safety procedures, and disposal of hazardous devices, including past incidents and current trends, basic physical laws and principles, incendiary materials, incident investigation and reporting procedures, location and render-safe procedures, disposal procedures, safety and control of explosives, and removal techniques.

Credit Recommendation: In the vocational certificate category, 2 semester hours in bomb disposal or police science (5/74).

AR-0801-0003

U.S. Army Drug and Alcohol Rehabilitation Training (Advanced)

Course Number: 5H-F4.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (68 hours).

Exhibit Dates: 10/77–Present.

Objectives: To provide selected military personnel and civilian Army employees with a working knowledge of skills and techniques to counsel clients and to perform consultative functions within the Army alcohol and drug abuse rehabilitation program.

Instruction: Lectures, conferences and practical exercises, including individual counseling, small-group processing, and client outreach and consultation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in substance abuse rehabilitation counseling (8/79).

AR-0801-0004

Aviation Mishap Prevention Management
(Aviation Accident Prevention Management)

Course Number: 7K-F13.

Location: Safety Center, Ft. Rucker, AL.

Length: 2 weeks (64 hours).

Exhibit Dates: 8/77–Present.

Objectives: To train selected personnel in techniques of establishing accident prevention programs; to familiarize them with the procedures of aircraft mishap investigation; and to provide a working knowledge of basic safety information concepts.

Instruction: Conferences and practical exercises in management techniques, mishap prevention, aircraft mishap investigation, aviation medicine, and aviation law.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation safety and accident investigation (10/78).

Related Occupation Codes: 67A; 67B; 67F; 67G; 67H; 67N; 67U; 67V; 67W; 67Y; 67Z; 68K; 71P.

AR-0802-0001

Technical Escort

Course Number: 2E-F21, 494-F3.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Chemical School, Ft. McClellan, AL.

Length: 4 weeks (131–148 hours).

Exhibit Dates: *Version 1:* 1/76–Present. *Version 2:* 12/66–12/75.

Objectives: To train enlisted personnel as technical escorts for hazardous materials.

Instruction: Lectures and practical experience in the handling of hazardous materials. Topics include the packaging and storing of chemical, biological, and radiological agents; the effects of these agents on humans; safety precautions; and the use of instruments to measure radiation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in hazardous materials handling (8/79). *Version 2:* Credit is not recommended because of the military-specific nature of the course (5/74).

Related Occupation Codes: 55D; 54B; 54E; 54D; 411A; 4514.

AR-0802-0002

Explosive Ordnance Disposal, Phase I

Course Number: 4E-F3; 431-55D10; 431-55D20; 431-413.1.

Location: Missile and Munitions School, Redstone Arsenal, AL; Chemical School, Ft. McClellan, AL.

Length: 2 weeks (72–76 hours).

Exhibit Dates: 2/65–Present.

Objectives: To train enlisted personnel and commissioned officers in the disposal of chemical and biological agents found in unexploded ordnance.

Instruction: Lectures and practical exercises in explosive ordnance disposal. Instruction includes latest biological agents; chemical and biological defense; recognition of the chemical, physical, and physiological effects on the body; and treatment procedures for personnel exposed to chemical agents.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/74).

Related Occupation Codes: 55D.

AR-0802-0003

Nuclear, Biological, Chemical Enlisted
(NBC Enlisted)
(Chemical, Biological, Radiological Enlisted with ARADCOM Track)
(Chemical, Biological, Radiological Enlisted)
(CBR Enlisted)

Course Number: 494-F1; 3-R-F2.

Location: Ordnance School, Aberdeen Proving Ground, MD; Chemical Corps School, Ft. McClellan, AL.

Length: 4 weeks (134–148 hours).

Exhibit Dates: 5/57–1/78.

Objectives: To train enlisted personnel in nuclear, biological, and chemical (NBC) or chemical, biological, and radiological (CBR) operations.

Instruction: Lectures in CBR or NBC operations, including organization and staff responsibilities, technical aspects of chemical and biological operations, nuclear warfare and radiological defense, and explosive ordnance.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/68).

AR-0802-0004

Nuclear Weapons Employment and Radiological Defense
(Nuclear Weapons Employment and Radiological Warfare)
(Atomic Defense)

Course Number: 3-G-F3; 3-I-F3; 3-O-6.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 6–7 weeks (214–268 hours).

Exhibit Dates: 4/55–12/68.

Objectives: To train officers and civilian personnel in nuclear weapons employment and defense.

Instruction: Lectures and practical exercises in nuclear weapons employment and defense, including personnel and administrative procedures; nuclear weapon effects; nuclear weapons; target analysis and weapon employment; residual radiation; nuclear hazards, accidents, and incidents; radiation; radiac instruments; and radiological surveys and radiological safety.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-0802-0005

Guided Missile, Nuclear Weapons and ARADCOM Safety

Course Number: 9-L-F30.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 3 weeks (94 hours).

Exhibit Dates: 10/61-12/68.

Objectives: To train enlisted personnel in guided missile and nuclear weapons safety practices, hazards and precautions at ARADCOM Nike tactical sites.

Instruction: Lectures and practical exercises in guided missiles, nuclear weapons and ARADCOM safety factors and procedures.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-0802-0006

Safety Engineering Intern Training Program

Course Number: None.

Location: DARCOM Intern Training Center, Red River Depot, Texarkana, TX.

Length: 48 weeks (1920 hours).

Exhibit Dates: 12/76-Present.

Objectives: To provide a foundation in general concepts and techniques of safety engineering.

Instruction: Lectures and practical exercises to cover safety engineering principles in industrial and commercial systems; principles of radiological safety, including basic theory of nuclear reactions, radioactivity, the sources of radiation and their interaction with matter; human relations and management psychology stressing understanding of behavior processes and patterns and including human factors engineering in systems design of hardware, personnel subsystems, and system procedures for operation and maintenance; design analysis; structural safety and failure modes analysis; safety in the occupational environment; and chemical safety in the industrial environment, to cover chemical compounds and solutions, their properties, uses, limitations, actions on the human body and practical means of safeguarding against their associated hazards.

Credit Recommendation: In the upper-division baccalaureate category, 8 semester hours in tools and methods of analysis, 6 in radiological safety, 4 in human factors, 4 in industrial hygiene, 16 in design analysis and applications (12/76); in the graduate degree category, 2 semester hours in tools and methods of analysis, 3 in radiological safety, 7 in design analysis and applications (12/76).

AR-0802-0007

Explosive Ordnance Disposal Supervisor

Course Number: 9-OE-90.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 6 weeks (210 hours).

Exhibit Dates: 5/57-12/68.

Objectives: To train officers and enlisted personnel in supervisory and managerial functions of explosive ordnance disposal operations.

Instruction: Lectures and practical exercises in disposal of ammunition, chemical fillers, and guided missile fuels and propellants; training for civil defense units and Federal civil defense organization and planning; salvage appraisal; and advanced map reading.

Credit Recommendation: Credit is not recommended because of the military nature of the course (7/74).

AR-0802-0008

Army Safety Program Management
(Army Safety Program Organization and Administration)

Course Number: 7K-F9.

Location: Safety Center, Ft. Rucker, AL; Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 2 ND 4 weeks (74 ND 155 hours).

Exhibit Dates: 9/67-Present.

Objectives: To provide personnel with a working knowledge of the management duties and responsibilities of an installation safety officer.

Instruction: Conferences, practical exercises, and demonstrations in injury prevention procedures management, safety administration, and accident prevention management.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in industrial safety management (3/75).

AR-0802-0009

Atomic Demolition Munitions (Enlisted)
(Atomic Demolition Munitions)

Course Number: 431-12E20.

Location: Engineer School, Ft. Belvoir, VA.

Length: 3 weeks (93-ND 102 hours).

Exhibit Dates: 1/69-Present.

Objectives: To provide enlisted personnel with a working knowledge of atomic demolitions utilizing either a SADM or MADM system.

Instruction: Lectures and practical exercises in atomic demolition warheads, security and storage, firing device, safety and emergency procedures, personal protection, safeguarding of nuclear control orders, nuclear effects, maintenance and transportation.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (9/79).

Related Occupation Codes: 12A; 12E.

AR-0802-0010

Atomic Demolition Munitions (Officer)

Course Number: 4E-F1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 2 weeks (71-75 hours).

Exhibit Dates: 10/71-Present.

Objectives: To provide commissioned officers with working knowledge of planning and executing an atomic demolition mission at the combat engineer level.

Instruction: Conferences, demonstrations, and practical exercises in staff and mission planning ordinance support, responsibilities as carrier and convoy commander, cratering, fallout prediction, and target analysis techniques, remote command equipment, nuclear accident/incident control, characteristics of nuclear explosives employment, safety rules, security and storage of devices, and emergency procedures.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (9/79).

AR-0802-0011

CBR Officer
(CBR Officer with ARADCOM Track)

Course Number: 2E-F5; 3-A-F1; 3-O-5.

Location: Ordnance School, Aberdeen Proving Ground, MD; Chemical School, Ft. McClellan, AL.

Length: 4 weeks (138-147 hours).

Exhibit Dates: 4/55-Present.

Objectives: To provide selected officers with a general knowledge of chemical, biological, and radiological weapons systems.

Instruction: Lectures and practical exercises in management and leadership, the technical aspects of chemical, biological, and radiological operations, nuclear warfare and radiological defense, and explosive ordnance.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (7/78).

AR-0802-0012

Ammunition Technician

Course Number: 4E-411A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 8 weeks (253 hours).

Exhibit Dates: 7/75-Present.

Objectives: To provide warrant officers—and, until 5/76, commissioned officers—with a knowledge of the organization, management, and operation of ammunition supply activities.

Instruction: Instruction includes conventional ammunition material and destruction; storage and transportation of ammunition; and ammunition service and destruction.

Credit Recommendation: In the vocational certificate category, 3 semester hours in explosives handling (8/77).

Related Occupation Codes: 55B; 55C; 55D; 55X; 55Z; 411A; 411A.

AR-0802-0014

Ammunition Inspector Correspondence/Resident (Abbreviated Version)

Course Number: 645-55X40.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4 weeks (157 hours).

Exhibit Dates: 4/79-Present.

Objectives: To provide Army and National Guard Reserve personnel with the skills and knowledge necessary to perform as ammunition inspectors.

Instruction: Phase II presents ammunition types, storage handling, transporting, maintenance and surveillance and destruction, previously studied by correspondence. Physical experiences are then conducted in these areas, on site. Phase IV presents guided missile operation; propellants; propellant storage, shipping, handling, and disposal of chemical and hazardous chemical agents. Physical experiences are then conducted in these areas, on site. NOTE: Students will have completed phases I and III through correspondence before reporting for phases II and IV. Credit recommendation is based only on phases II and IV.

Credit Recommendation: In the vocational certificate category, 3 semester hours in explosives handling (8/79).

Related Occupation Codes: 55B; 55D; 55G.

AR-0802-0015

Aviation Mishap Prevention
(Aviation Accident Prevention)

Course Number: 7K-F14.

Location: Safety Center, Ft. Rucker, AL.

Length: 2 weeks (66 hours).

Exhibit Dates: 4/77-Present.

Objectives: To train selected Army aviation personnel in the techniques of establishing and conducting accident prevention programs; to familiarize them with conducting aircraft accident investigations; and to provide a working knowledge of basic safety information concepts.

Instruction: Lectures and study assignments in establishing and conducting safety and accident prevention programs and in investigating aircraft accidents. A considerable amount of training is provided in general safety information and concepts.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in aviation safety and accident investigation (10/78).

AR-0802-0016

Chemical Operations Specialist

Course Number: 494-54E10.

Location: Ordance and Chemical School, Aberdeen Proving Ground, MD.

Length: 10 weeks (386 hours).

Exhibit Dates: 7/77-Present.

Objectives: To train enlisted personnel in nuclear chemical and biological reconnaissance and decontamination operations.

Instruction: Lectures and practical experiences in chemical and biological defense, nuclear warfare and radiological defense, decontamination, smoke and flame operations and NBC reconnaissance.

Credit Recommendation: Credit is not recommended due to the limited specialized nature of the course (1/78).

AR-0803-0001

Special Forces Underwater Operations

Course Number: 011-ASIW71W9; 2E-F38; 011-F8.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 3-6 weeks (130-189 hours).

Exhibit Dates: 8/72-Present.

Objectives: To provide personnel with training in underwater operations.

Instruction: Lectures and practical exercises in surface swims, underwater swims with open- and closed-circuit diving equipment, diving physics, diving hazards, underwater demolition training, submarine training, special techniques and advanced tactics, and maintenance and use of equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in swimming and physical education (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in swimming and physical education (5/74); in the upper-division baccalaureate category, 2 semester hours in physical education (5/74).

AR-0803-0002

Basic Airborne (Women)

Course Number: 011-F1B.

Location: Infantry School, Ft. Benning, GA.

Length: 4 weeks (120 hours).

Exhibit Dates: 2/75-Present.

Objectives: To train personnel in the techniques of parachuting and in the development of leadership and self-confidence through mental and physical training.

Instruction: Practical exercise training in basic parachuting techniques including landing falls, door exits, malfunctions, jump tower training, and jumps from aircraft.

Credit Recommendation: Credit is not recommended because of the military nature of the course (6/75).

AR-0804-0001

Special Services (SS-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 5-SS-C40.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 10 weeks (307 hours).

Exhibit Dates: 11/72-Present.

Objectives: To qualify enlisted personnel as special services noncommissioned officers.

Instruction: Lectures and instruction in special services operations. Course includes military writing, effective speaking, and special service activities such as recreation, arts and crafts, and management and administration of recreational and athletic facilities.

Credit Recommendation: In the vocational certificate category, 3 semester hours in recreational leadership, and credit in sports and recreation on the basis of institutional evaluation (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in recreational leadership (5/74).

Related Occupation Codes: 03B; 03C; 03D.

AR-0804-0002

Recreation Services Officer
(Special Services Officer)

Course Number: 7N-5000; 12-A-5000.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (108-115 hours).

Exhibit Dates: 3/63-2/75.

Objectives: To train commissioned officers in the administration and operation of recreation services activities.

Instruction: Lectures and practical exercises in the administration and operation of recreation services activities, including funds and budgets, recreation services programs, organization and administration, special subjects, and special activities.

Credit Recommendation: In the vocational certificate category, 2 semester hours in methods and techniques of recreational programs (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in methods and techniques of recreational programs (8/74); in the upper-division baccalaureate category, 2 semester hours in methods and techniques of recreational programs (12/68).

AR-1108-0001

Mathematical Programming

Course Number: None.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 9/64-12/68.

Objectives: To train enlisted personnel in mathematical programming.

Instruction: Lectures and practical exercises in matrix algebra review, linear programming, network flows, parametric programming, integer programming, nonlinear programming, and electronic computers.

Credit Recommendation: In the vocational certificate category, 2 semester hours in operations research (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in operations research (7/74); in the upper-division baccalaureate category, 2 semester hours in operations research (12/68).

AR-1112-0001

Lacrosse Officer

Course Number: 6-A-1187; 6-A-1190C.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 4-5 weeks (176-199 hours).

Exhibit Dates: 11/57-12/68.

Objectives: To train commissioned officers to command and operate Lacrosse missiles and associated equipment.

Instruction: Lectures and practical exercises in operation of Lacrosse missile systems and associated command duties. Topics include gunnery and target procedures, missile guidance, and launcher assemblies; and use of mathematical tables for target trajectories and solutions to gunnery problems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in mathematical analysis (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in mathematical analysis (6/74).

AR-1115-0001

Design and Analysis of Experiments

Course Number: None.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 6/64-12/68.

Objectives: To train engineers, scientists, and research analysts in statistical concepts and techniques related to research experimentation.

Instruction: Lectures and practical exercises in introduction to statistics, introductory probability and random variables, mathematical models and sampling, statistical estimation, hypotheses tests, linear regression, and design of experiments.

Credit Recommendation: In the vocational certificate category, 3 semester hours in statistics (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in statistics (7/74); in the upper-division baccalaureate category, 3 semester hours in statistics (7/74).

AR-1115-0002

Probabilistic Methods in Operations Research

Course Number: None.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 7/64-12/68.

Objectives: To train engineers, scientists, and operations research analysts in the theory of probability and random variables, and the development of mathematical models.

Instruction: Lectures and practical exercises in probabilistic methods in operations research, calculus review, differential equations, partial fractions, finite differences, generating functions, matrix algebra, notion of probability distribution theory, finite Markow chains and statistical inference, production and decision processes, inventories, maintenance, replacement, and competitive strategy.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in statistical probability (7/74); in the upper-division baccalaureate category, 2 semester hours in statistical probability (7/74).

AR-1115-0003

Management Statistics by Correspondence

Course Number: 7E-F15.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: Maximum of 52 weeks.

Exhibit Dates: 6/75–Present.

Objectives: To provide a basic understanding of the methods used in the collection, presentation, analysis, interpretation, and evaluation of data for management purposes.

Instruction: Methods of instruction used include programmed learning, self-testing, practical exercises, and problem solving to cover statistics and management; data presentation; descriptive statistics; normal probability distribution; sampling for estimation and control; and correlation and regression analysis. All examinations administered by enrollee's local training officer.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in applied statistics (11/76).

AR-1115-0004

Statistical Quality Control II

Course Number: 8D-F23A.

Location: Army Management Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 7/64–6/73.

Objectives: To provide skills necessary to employ significance tests, sequential analysis, and life testing procedures in quality control and reliability activities.

Instruction: Provides a review of statistical quality control fundamentals; tests of significance; sequential analysis; life testing and regression analysis; and designated experiments through lecture-conferences and practical exercises.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in statistics applications—quality control (11/76).

AR-1115-0005

Reliability Engineering

Course Number: 5A-F2.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 7/75–Present.

Objectives: To provide knowledge of the fundamentals of reliability, availability, and maintainability (RAM) engineering and the basic policies of DoD with respect to RAM programs and management, and to teach students to apply basic RAM engineering techniques.

Instruction: Lecture-conferences and practical exercises to include the history of DoD RAM efforts, policies, and programs, probability and statistics, systems and subsystems reliability, introduction to RAM design, parameter estimation, predictions and apportionments. Description and experiences in concept-of-failure modes and effects analysis, field failure data feedback and reliability growth. RAM requirements generation and survey of testing, demonstration and verification requirements.

Credit Recommendation: In the graduate degree category, 3 semester hours in industrial and systems engineering (11/76).

AR-1115-0006

Statistical Analysis and Designed Experiments

Course Number: 8D-F33.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 7/73–Present.

Objectives: To provide students with a working knowledge of the concepts and techniques of experimental design and analysis.

Instruction: Use of statistical methods in data collection analysis and interpretation for a wide variety of functional areas covering research engineering management science, operations research, and testing of materials and/or products.

Credit Recommendation: In the graduate degree category, 3 semester hours in statistical design of experiments (11/76).

AR-1115-0007

Statistical Inference

Course Number: 8D-F32.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 7/73–Present.

Objectives: To provide students with a knowledge of the techniques of statistical inference and the facility for application of these techniques to problems in science and engineering.

Instruction: Lecture-conferences and practical exercises to cover probability, descriptive statistics, elements of distribution theory, inference under risk, Bernoulli experiments, Poisson processes and exponential distributions, distribution-free methods of statistical analysis, sequential tests of hypothesis, and Bayesian confidence intervals.

Credit Recommendation: In the graduate degree category, 3 semester hours in statistical inference (11/76).

AR-1115-0008

Statistical Quality Control

Course Number: 8D-F23.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (77 hours).

Exhibit Dates: 5/63–Present.

Objectives: To provide students with a working knowledge of basic statistical techniques and the application, interpretation, and evaluation of process controls and acceptance sampling plans.

Instruction: Lecture-conferences and practical exercises to include probability models and sampling distribution, probability and descriptive statistics; statistical process controls using variables data and attributes data; sampling procedures for inspection by variables and by attributes.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in statistics applications—quality control (11/76).

AR-1115-0009

Maintainability Engineering
(Maintainability Engineering Intern Training Program)

Course Number: None.

Location: DARCOM Intern Training Center, Red River Depot, Texarkana, TX.

Length: 52 weeks (2080 hours).

Exhibit Dates: 7/75–Present.

Objectives: To provide the graduate with comprehensive engineering background in maintainability design to help influence the design of future weapons systems in such a way as to reduce their maintenance costs.

Instruction: Lectures, conferences, practical exercises, computer simulation, cases, on-the-job training and research to cover the following general areas: reliability and maintainability engineering, quantitative and statistical methods, management and computer science, operations research, design of engineering experiments, logistics support analysis, techniques of cost estimation, failure modes analysis, and management information systems.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in maintainability analysis, 1 in logistics support analysis, 3 in systems engineering, 2 in problems in maintainability engineering, 2 in failure mode analysis, 2 in human operation in complex systems, 2 in advanced engineering mathematics techniques, 6 in mathematical statistics, 3 in statistical quality control, 3 in design of engineering experiments, 2 in techniques in cost estimating, 2 in management information systems, 2 in general management, 2 in engineering applications of computer technology, 2 in computer simulation for system design, 3 in operations analysis (12/76); in the graduate degree category, 4 semester hours in reliability and maintainability engineering, 1 in computer science, 7 in quantitative and statistical methods (12/76).

AR-1205-0001

Advanced Bandsman
(Bandmaster Preparatory)

Course Number: 12-N-5241; 12-OE-25.

Location: School of Music, Washington, DC.

Length: 20 weeks (800 hours).

Exhibit Dates: 8/56–12/68.

Objectives: To train accomplished musicians in advanced techniques of band conducting, leadership, organization, administration, and instrumentation.

Instruction: Lecture series includes: exercise of authority and responsibility in chain of command; development of leadership techniques; management of music supplies and equipment; developing skills in basic tone production; reading skills; sight singing and music dictation; scale intervals; triads; four-part harmony; modulation; principles of form, phrases, and acoustics; musical instrument classification and transposition; examination, analysis, and playing of arrangements; scoring for ensembles and bands; reading and studying of scores for rehearsals; historical development of conducting; supervised preparation and rehearsal of band numbers; marching formations and parade duties; baton signals for drum majors; verbal command of marching band units, dance band techniques and styles; major types of band literature; historical development of military bands; observation and field trips, including attendance at concerts and ceremonies of various service bands; and individual practice under faculty supervision.

Credit Recommendation: In the vocational certificate category, 3 semester hours in applied music, 1 in band, 7 in music theory, 6 in music education, 2 in music literature (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in applied music, 1 in band, 7 in music theory, 6 in music education, 2 in music literature (2/74); in the upper-division baccalaureate category, 3 semester hours in applied music, 1 in band, 7 in music theory, 6 in music education, 2 in music literature (2/74).

Related Occupation Codes: 031A.

AR-1303-0001

1. Chemical Laboratory Procedures
2. Chemical Laboratory Procedures
3. Chemical Laboratory Procedures (Chemical Laboratory)

Course Number: *Version 1:* 491-92D20. *Version 2:* 491-92D20. *Version 3:* 3-R-904;1 3-E-5.

Location: *Version 1:* Ordnance School, Aberdeen Proving Ground, MD. *Version 2:* Chemical School, Ft. McClellan, AL. *Version 3:* Chemical School, Ft. McClellan, AL.

Length: *Version 1:* 13 weeks (438–440 hours). *Version 2:* 10 weeks (392–399 hours). *Version 3:* 8 weeks (280–306 hours).

Exhibit Dates: *Version 1:* 6/74–Present. *Version 2:* 11/66–5/74. *Version 3:* 4/54–10/66.

Objectives: To train personnel in chemical laboratory procedures.

Instruction: Lectures and practical exercises in chemical laboratory procedures, including standard laboratory procedures using chemicals and special equipment to analyze, identify, or synthesize a variety of organic and inorganic compounds, basic radiological physics, radiac instruments, radiological techniques, microbiological laboratory techniques, biological, chemical, atomic, and radiological warfare.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in chemistry, 1 in microbiology, and 3 in nuclear physics (1/78). *Version 2:* In the vocational certificate category, 3 semester hours in introduction to nuclear instrumentation, and 5 in general chemistry (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to nuclear instrumentation, and 5 in general chemistry (5/74); in the upper-division baccalaureate category, 5 semester hours in general chemistry (12/68). *Version 3:* In the vocational certificate category, 5 semester hours in general chemistry (5/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in general chemistry (5/74); in the upper-division baccalaureate category, 5 semester hours in general chemistry (12/68).

Related Occupation Codes: 92D.

AR-1303-0002

NUCLEAR WEAPONS EFFECTS OFFICER

Course Number: 3-A-7330.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 12 weeks (431–439 hours).

Exhibit Dates: 1/59–12/68.

Objectives: To train Army officers possessing degrees in Math, Engineering, or the Physical Sciences to function as nuclear warfare effects specialists.

Instruction: Course covers meteorology, radiation effects and monitoring methods, and a thorough study of modern physics, including types of electronic instrumentation.

Credit Recommendation: In the vocational certificate category, 7 semester hours in physics, 2 in mathematics, and 1 in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in physics, 1 in mathematics, and 1 in electronics laboratory (6/74); in the upper-division baccalaureate category, 6 semester hours in general physics and 2 in general mathematics (12/68).

AR-1304-0001

METEOROLOGICAL OBSERVATION

Course Number: 420-93E20; 420-905.1; 11-R-905.1; 11-E-36.

Location: *Version 1:* Field Artillery School, Ft. Sill, OK. *Version 2:* Signal School, Ft. Monmouth, NJ.

Length: 13–22 weeks (470–769 hours).

Exhibit Dates: 12/55–6/76.

Objectives: To train enlisted personnel to observe, compile, and interpret meteorological phenomena at locations away from fixed weather installations.

Instruction: Lectures and practical exercises in the observation, compilation, and interpretation of meteorological phenomena at locations away from fixed weather installations, including meteorological theory (atmospheric physics, cloud principles, and atmospheric phenomena), meteorological and micrometeorological instrumentation (thermometry, phychrometry, pressure and wind measurements, radiometry), surface and upper-air observations, plotting techniques, and coding.

Credit Recommendation: In the vocational certificate category, 12 semester hours in meteorology (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in meteorology (5/74); in the upper-division baccalaureate category, 3 semester hours in meteorology (12/68).

Related Occupation Codes: 93E.

AR-1304-0002

1. Field Artillery Meteorological Crewman
2. Artillery Ballistic Meteorology

Course Number: *Version 1:* 420-93F10; 420-93F10. *Version 2:* 5B-F1; 420-93F20; 6-H-103;1 6-N-215;2 6-OE-35.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* Self-paced, 8–12 weeks (240–360 hours). *Version 2:* 10–11 weeks (353–417 hours).

Exhibit Dates: *Version 1:* 10/79–Present. *Version 2:* 4/56–9/79.

Objectives: *Version 1:* To train enlisted personnel in artillery ballistic meteorology effects, equipment used, and the installation and operation of an artillery meteorology station. *Version 2:* To train enlisted personnel in artillery ballistic meteorology.

Instruction: *Version 1:* Laboratories and practical exercises on artillery meteorology, surface measurements and equipment, airborne radiosonde/balloons, visual equipment, theodolite, zone and ballistic winds avemometer ,psychsometer, computing meteorological effects both manually and by computer and setting up and operating a meteorological station. The course is self-paced with a laboratory basis, individual evaluations, and continuous performance evaluations. *Version 2:* Lectures and practical exercises on artillery ballistic meteorology, including mathematics; elementary meteorology; surface instruments and equipment; pibal and surface observation method; radiosondes and accessory equipment; radiosonde recorder and data; visual instruments and equipment; rawin set AN/GMD-1; computer; NATO; fallout and sound ranging winds; air weather service operations; and visual equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in elementary meteorology (1/80); in the upper-division baccalaureate category, 1 semester hour in elementary meteorology (1/80). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary meteorology (5/74); in the upper-division baccalaureate category, 2 semester hours in elementary meteorology (12/68).

Related Occupation Codes: 93F; 35D.

AR-1304-0003

METEOROLOGICAL OBSERVER NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 420-93E50-EC.

Location: Field Artillery School, Ft. Sill, OK.

Length: 9–10 weeks (298–338 hours).

Exhibit Dates: 10/71–Present.

Objectives: To train qualified meteorological observers in advanced meteorological observation techniques.

Instruction: Lectures and practical exercises in the duties of noncommissioned officers in meteorological observations, including artillery transport, leadership brigade, weapons, leadership, tactics and combined arms, command and staff, nuclear employment, target acquisition, meteorological equipment, RDT & E administrative policies, and USAFAS demonstration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology (6/74).

Related Occupation Codes: 93E.

AR-1304-0004

FIELD ARTILLERY CANNON OPERATIONS/FIRE DIRECTION ASSISTANT

Course Number: 250-13E10.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* 5–12 weeks (205–529 hours). *Version 2:* 7 weeks (246 hours).

Exhibit Dates: *Version 1:* 7/78–8/79. *Version 2:* 3/75–6/78.

Objectives: Basic instruction in translating map and meteorological information into azimuth and elevation information for aiming cannon.

Instruction: *All Versions:* Course includes basic mathematics (addition, subtraction, multiplication, division, and proportion), map reading and use of radio and telephone equipment. Several hours of drill in coverting map and meteorological information into azimuth and elevation information for a range of conditions. *Version 1:* Includes basic training.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in basic mathematics (1/80); in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading or plotting (1/80). *Version 2:* Credit is recommended on the basis of institutional evaluation (1/80).

AR-1401-0001

1. Military Accounting (Financial Management–Integrated Accounting)
2. Financial Management–Integrated Accounting

Course Number: *Version 1:* 7D-44B; 7D-6101; 7D-6301; 541-F4; 7D-F2; 541-733;1 14-K-733;1 14-L-733.1. *Version 2:* 14-OE-9.

Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *All Ver-*

sions: Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 3-5 weeks (154-220 hours). *Version 2:* 3 weeks (120-132 hours).

Exhibit Dates: *Version 1:* 7/56-Present. *Version 2:* 6/55-6/56.

Objectives: To train officer, enlisted, and civilian personnel in military accounting principles and procedures.

Instruction: *All Versions:* Lectures and practical exercises in basic principles of military accounting, including installation accounting, ADP systems theory and practice, stock fund accounting, and the use of accounting machines and equipment. *Version 2:* Lectures include a review of basic accounting, financial code, and distribution operations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in government accounting (12/68). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in government accounting (12/68).

AR-1401-0002

1. Finance Specialist
2. Finance Specialist
   (Pay/Disbursing Specialist)

Course Number: 542-73C20.

Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2.* Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 6 weeks (204 hours). *Version 2:* 5-8 weeks (164-281 hours).

Exhibit Dates: *Version 1:* 6/74-Present. *Version 2:* 1/67-5/74.

Objectives: To train enlisted and civilian personnel in the principles of military pay procedures and in the organization and operation of finance offices.

Instruction: Lectures and practical exercises in military pay procedures and in the organization and operation of finance offices, including audit and review techniques, travel voucher preparation and computation, and various disbursing methods.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in finance or clerical operations (3/75). *Version 2:* In the vocational certificate category, 3 semester hours in finance or clerical operations (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in finance or clerical operations (2/74); in the upper-division baccalaureate category, 3 semester hours in finance and disbursing (12/68).

Related Occupation Codes: 71B; 73C.

AR-1401-0003

Auditing

Course Number: 14-OE-4.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 8 weeks (296 hours).

Exhibit Dates: 4/56-12/68.

Objectives: To train Army personnel in the establishment and auditing of various systems of accounts.

Instruction: Practical exercises in general and property accounting and auditing procedures, auditing of financial reports and records, and auditing methods of nonappropriated funds.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in general accounting, 3 in auditing (12/68).

AR-1401-0004

Accounting Specialist

Course Number: 541-73D20.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 6-8 weeks (210-247 hours). *Version 2:* 7-8 weeks (240-280 hours).

Exhibit Dates: *Version 1:* 3/68-Present. *Version 2:* 7/66-2/68.

Objectives: To train enlisted personnel in the principles, policies, and procedures of accounting.

Instruction: *Version 1:* Lectures and practical exercises in commercial accounting; nonappropriated fund accounting, and stock fund accounting. *Version 2:* Lectures and practical exercises in appropriated funds; pay of military personnel, disbursing operations, internal review and auditing, and introduction to the fiscal code.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in fund accounting (3/75). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in government accounting (12/68).

Related Occupation Codes: 71B; 73D.

AR-1401-0005

Command Stock Fund Accounting

Course Number: None.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (110 hours).

Exhibit Dates: 1/62-12/68.

Objectives: To provide military personnel with a general knowledge and understanding of stock fund accounting.

Instruction: Lectures and practical exercises in financial management, general accounting review, military supply accounting, case studies of stock fund accounting problems, and application of data processing to stock fund operations.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in stock fund accounting (12/68).

AR-1401-0006

Disbursing Specialist

Course Number: 542-732.1; 14-S-732.1.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 4-6 weeks (174-220 hours).

Exhibit Dates: 2/59-12/68.

Objectives: To train enlisted personnel in disbursement methods and procedures and related office procedures.

Instruction: Lectures and practical exercises in military pay, civilian pay, travel allowances, commercial accounts, disbursing operations, accounting, and supervision.

Credit Recommendation: In the vocational certificate category, 3 semester hours in bookkeeping and clerical operations (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to accounting, 1 in office administration (2/74); in the upper-division baccalaureate category, 3 semester hours in fiscal procedures (12/68).

AR-1401-0007

Finance Procedures

Course Number: *Version 1:* 542-730.0. *All Versions:* 14-R-730.0. *Version 2:* 14-E-2.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 5-6 weeks (169-210 hours). *Version 2:* 8 weeks (280-287 hours).

Exhibit Dates: *Version 1:* 2/59-12/68. *Version 2:* 11/55-1/59.

Objectives: To train enlisted personnel in the financial procedures of acquisition, disbursing, and accounting for public funds.

Instruction: *All Versions:* Lectures and practical application of military personnel payment procedures, travel allowances and commercial accounts, disbursing operations, office machine equipment operation, and basic fiscal code. *Version 1:* Lectures on introduction to military accounting. *Version 2:* Practical typing exercises.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in government accounting (12/68). *Version 2:* In the vocational certificate category, 2 semester hours in government accounting (2/74); in the upper-division baccalaureate category, 3 semester hours in government accounting (12/68).

AR-1401-0008

Life Cycle Cost Analysis of Weapons Systems

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 4 weeks (142 hours).

Exhibit Dates: 1/71-Present.

Objectives: To provide commissioned officers and civilian personnel with practical experience in preparing a life-cycle cost analysis study.

Instruction: Practical exercises in the quantitative aspects of cost estimation and cost analysis; cost implications of the Army life-cycle management model; and procedures and problems in the preparation of life-cycle cost analysis of major weapons systems.

Credit Recommendation: In the vocational certificate category, credit in cost analysis/cost accounting on the basis of institutional evaluation (2/74).

AR-1401-0009

1. Financial Management Officer Advanced
2. Finance Officer Advanced
3. Finance Officer Advanced
4. Finance Officer Career
5. Finance Officer Career
6. Finance Officer Career
7. Finance Officer Career
8. Finance Officer Advanced
9. Finance Officer Advanced
10. Finance Officer Advanced

Course Number: *Version 1:* 7-14-C22. *Version 2:* 7-14-C22. *Version 3:* 7-14-C22. *Version 4:* 7-14-C22. *Version 5:* 14-A-C22. *Version 6:* 14-A-C22. *Version 7:* 14-A-C22. *Version 8:* 14-A-C4. *Version 9:* 14-A-C4; 14-O-3. *Version 1:* 14-O-3.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 23-26 weeks (810-818 hours). *Version 2:* 33-35 weeks (1002-1136 hours). *Version 3:* 33 weeks (990-997 hours). *Version 4:* 23 weeks (799-821 hours). *Version 5:* 35 weeks (1225 hours). *Version 6:* 35 weeks (1190 hours). *Version 7:* 35 weeks (1206-1326 hours). *Version 8:* 36 weeks (1260 hours). *Version 9:* 36 weeks (1268-1284 hours). *Version 10:* 35 weeks (1242 hours).

Exhibit Dates: *Version 1:* 10/75-Present. *Version 2:* 7/69-9/75. *Version 3:* 6/67-6/69. *Version 4:* 5/65-5/67. *Version 5:* 5/64-4/65. *Version 6:* 5/63-4/64. *Version 7:* 8/60-4/63. *Version 8:* 7/58-7/60. *Version 9:* 8/56-6/58. *Version 10:* 9/55-7/56.

Objectives: To train commissioned officers to manage financial operations.

Instruction: Lectures and practical exercises in military accounting, programming and budgeting, management principles, statistical reporting and analysis, supply management, government purchasing and contracting, finance and accounting office operations, administrative practices, economic principles, and military science and tactics.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in data processing, 2 in principles of economics (1/78); in the upper-division baccalaureate category, 1 semester hour in quantitative management, 3 in management and organizational behavior, 3 in financial management, 2 in managerial accounting (1/78). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in data processing, 6 in management and organizational behavior, 2 in economic principles, and 1 for the selected elective (3/75). *Version 3:* In the vocational certificate category, 2 semester hours in data processing, 2 in business administration, and, on the basis of institutional evaluation, 2 semester hours as an elective in ADP systems, operations research, programming theory and techniques, internal review, advanced managerial accounting, communicative arts, current economic problems, international relations, or government (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in data processing, 2 in business administration, and, on the basis of institutional evaluation, 2 semester hours as an elective in ADP systems, operations research, programming theory and techniques, internal review, advanced managerial accounting, communicative arts, current economic problems, international relations, or government (2/74); in the upper-division baccalaureate category, 3 semester hours in accounting, 3 in cost accounting, 2 in business administration, 3 in computer principles, 3 in finance and disbursing (12/68). *Version 4:* In the vocational certificate category, 2 semester hours in data processing, 2 in business administration (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in data processing, 2 in business administration (2/74); in the upper-division baccalaureate category, 3 semester hours in accounting, 2 in finance and fiscal programs, 2 in business administration, 2 in computer principles (12/68). *Version 5:* In the vocational certificate category, 4 semester hours in accounting, 2 in data processing (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in accounting, 2 in data processing (2/74); in the upper-division baccalaureate category, 3 semester hours in accounting, 3 in cost accounting, 3 in finance and disbursement, 2 in business administration, 3 in computer principles (12/68). *Version 6:* In the vocational certificate category, 3 semester hours in accounting (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in accounting (2/74); in the upper-division baccalaureate category, 3 semester hours in accounting, 3 in cost accounting, 3 in finance and disbursement, 2 in business administration (12/68). *Version 7:* In the vocational certificate category, 3 semester hours in accounting (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in accounting (2/74); in the upper-division baccalaureate category, 3 semester hours in accounting, 3 in cost accounting, 3 in finance and disbursing, 3 in computer principles (12/68). *Version 8:* In the lower-division baccalaureate/associate degree category, 4 semester hours in general accounting, and 3 in general business administration (7/74); in the upper-division baccalaureate category, 3 semester hours in general accounting, 3 in cost accounting, 3 in finance and disbursing, 3 in personnel management, and 2 in general business administration (12/68). *Version 9:* In the lower-division baccalaureate/associate degree category, 14 semester hours in elementary through advanced accounting, 3 in cost accounting, and 6 in business administration (7/74); in the upper-division baccalaureate category, 14 semester hours in elementary through advanced accounting, 3 in cost accounting, and 6 in business administration (12/68). *Version 10:* In the lower-division baccalaureate/associate degree category, 6 semester hours in business administration, 4 in economics, 3 in business law, and 6 in general accounting (7/74); in the upper-division baccalaureate category, 6 semester hours in business administration, 4 in economics, 3 in business law, and 6 in general accounting 12/68).

AR-1401-0010

INTERNAL REVIEW

Course Number: 7D-F6; 541-F3; 14-K-F15; 14-L-F15; 14-I-F15.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 4 weeks (142–148 hours).

Exhibit Dates: 9/59–Present.

Objectives: To provide enlisted personnel who are knowledgeable in accounting with a basic understanding of the principles, procedures, and techniques of internal review.

Instruction: Lectures and practical application of automated accounting systems, fundamental military operational accounting, management of resources, and implications of internal review.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in business procedural analysis (12/68).

Related Occupation Codes: 73D.

AR-1401-0011

ACCOUNTING (INTERMEDIATE)

Course Number: 14-G-F8.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 4 weeks (140 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To train commissioned officers and civilians to handle accounting responsibilities at the intermediate level

Instruction: Lectures and practical exercises in accounting duties and procedures. Course includes accounting cycles, working-capital analysis, net worth studies, balance sheet accounts, statements of funds, and problem assignments.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in intermediate accounting (6/74); in the upper-division baccalaureate category, 4 semester hours in intermediate accounting (12/68).

AR-1401-0012

ACCOUNTING (BASIC)

Course Number: 14-G-F7.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 4 weeks (140 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To train personnel in the basic principles of accounting.

Instruction: Lectures and practical exercises in the basic principles of accounting, including basic accounting theory, working papers, accounting procedures, theory and miscellaneous matters, correlation of commerical accounting and integrated accounting, alternative adjustment procedures, proprietorships, partnerships, merchandise operations, and books of original entry.

Credit Recommendation: In the vocational certificate category, 6 semester hours in first principles of accounting (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in first principles of accounting (6/74); in the upper-division baccalaureate category, 6 semester hours in first principles of accounting (6/74).

AR-1401-0013

SPECIAL PURPOSE EQUIPMENT REPAIR PARTS SPECIALIST

Course Number: 551-76Q20.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (128 hours). *Version 2:* 4–5 weeks (148–172 hours).

Exhibit Dates: *Version 1:* 8/74–11/77. *Version 2:* 9/67–7/74.

Objectives: To train enlisted personnel to receive, store, inspect, identify, preserve, and ship special-purpose equipment repair parts.

Instruction: Lectures and practical exercises in the repair and storage of special-purpose equipment repair parts. Course includes maintenance equipment records system, supply bulletins, item identification, repair parts records, storage operations, and shipping procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in repair parts management techniques (6/75). *Version 2:* In the vocational certificate category, 2 semester hours as an elective in business accounting (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in business accounting (7/74).

Related Occupation Codes: 76P; 76Q.

AR-1401-0014

ACCOUNTING (ADVANCED)

Course Number: 14-G-F9.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 5 weeks (180 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To train commissioned officers and civilians in advanced accounting methods.

Instruction: Lectures and practical exercises in advanced accounting methods. Course includes study of home office and branch accounting, consolidated statements, auditing, comparative financial statements, working-capital analysis, income statement analysis, analysis of long-term financial conditions, and government accounting applications.

Credit Recommendation: In the vocational certificate category, 5 semester hours in advanced accounting (7/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in advanced accounting (7/74); in the upper-division baccalaureate category, 5 semester hours in advanced accounting (12/68).

AR-1401-0015

Cost Accounting

Course Number: 14-G-F10.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 4 weeks (140 hours).

Exhibit Dates: 2/57-12/68.

Objectives: To train commissioned officers in cost accounting.

Instruction: Lectures and practical exercises in the principles of cost accounting. Course includes job order costing, process costing, standard costs, budgets, industrial funds, and administrative cost procedures for installations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in cost accounting (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in cost accounting (7/74); in the upper-division baccalaureate category, 4 semester hours in cost accounting (12/68).

AR-1401-0016

Stock Control and Accounting
(Stock Control and Accounting Specialist)

Course Number: 551-76P20.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 8 weeks (250-257 hours). *Version 2:* 5-7 weeks (193-228 hours).

Exhibit Dates: *Version 1:* 6/72-Present. *Version 2:* 9/67-5/72.

Objectives: To train enlisted personnel to function as stock control and accounting specialist.

Instruction: Lectures and practical exercises in the duties of a stock control and accounting specialist. Topics include stock record accounting, managing stock records, mechanized stock control, and accounting procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in supply records processing (6/75). *Version 2:* In the vocational certificate category, 1 semester hour in accounting principles (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in accounting principles (7/74).

Related Occupation Codes: 76P; 76Q; 76R; 76S; 76T; 76U.

AR-1401-0017

Army Materiel Command
Comptrollership

Course Number: 7D-F9.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 5-6 weeks (178-219 hours). *Version 2:* 6 weeks (207 hours).

Exhibit Dates: *Version 1:* 7/68-Present. *Version 2:* 7/67-6/68.

Objectives: To train officers and civilian personnel in materiel command comptrollership operations.

Instruction: Lectures and practical exercises in comptrollership concepts and practices; planning; programming and budgeting; managerial accounting; review and analysis; management techniques; and internal review and audit.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in managerial accounting (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in managerial accounting (7/74); in the upper-division baccalaureate category, 2 semester hours in managerial accounting (7/74). *Version 2:* In the vocational certificate category, 2 semester hours in managerial accounting (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in managerial accounting (7/74); in the upper-division baccalaureate category, 3 semester hours in finance and fiscal procedures (12/68).

AR-1401-0018

Associate Finance Officer Career

Course Number: 14-A-C23.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 19 weeks (711 hours). *Version 2 :* 19 weeks (711 hours). *Version 3 :* 19 weeks (778 hours).

Exhibit Dates: *Version 1:* 9/64-8/66. *Version 2:* 9/63-8/64. *Version 3:* 11/62-8/63.

Objectives: To train officers in the duties and responsibilities of Finance Corps officers.

Instruction: *All Versions:* Lectures and practical exercises in the responsibilities of Finance Corps officers, including accounting subjects, comptroller subjects, staff finance subjects, and military science and tactics, government purchasing and contracting, programming and budgeting, accounting foundations, and progress and statistical reporting and analysis. *Version 1:* Topics include command and staff actions/finance operations, and utilization of automatic data processing equipment in accounting systems. *Version 2:* Topics include management engineering and economic aspects of geopolitics. *Version 3:* Topics include analysis and managerial use of accounting data, and utilization of EAM in accounting systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in principles of accounting (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in principles of accounting (7/74); in the upper-division baccalaureate category, 2 semester hours in business administration, 3 in government accounting, 3 in finance and disbursing, 1 in computer principles (12/68). *Version 2:* In the vocational certificate category, 6 semester hours in principles of accounting (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in principles of accounting (7/74); in the upper-division baccalaureate category, 3 semester hours in business administration, 4 in government accounting, 3 in finance and disbursing, 1 in computer principles (12/68). *Version 3:* In the vocational certificate category, 6 semester hours in principles of accounting (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in principles of accounting (7/74); in the upper-division baccalaureate category, 3 semester hours in computer principles, 2 in general business administration, 3 in government accounting, 3 in finance and disbursing (12/68).

AR-1401-0019

Pay Specialist

Course Number: 12-R-716.2.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3-4 weeks (105-154 hours).

Exhibit Dates: 8/62-12/68.

Objectives: To train enlisted personnel to maintain and review military pay data records and to prepare and submit unit payrolls and vouchers for various pay collections and entitlements.

Instruction: Lectures and practical exercises in the military pay voucher system. Topics include pay administration, pay records, personnel records, and pay operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/74).

AR-1401-0021

Cost Accounting Standards Workshop

Course Number: ALM-36-0217.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (74 hours).

Exhibit Dates: 5/77-Present.

Objectives: To instruct personnel in the utilization of cost accounting standards used in connection with defense contracts.

Instruction: Lectures/conferences and practical exercises on the latest regulations of the Cost Accounting Standards Board.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in cost accounting standards (3/78).

AR-1402-0001

1. Systems Analysis
   (Advanced ADP Systems Analysis)
2. Assistant Systems Analyst

Course Number: *All Versions:* 531-74G20. *Version 1:* 7F-F23.

Location: *All Versions:* Adjutant General's School, Ft. Benjamin Harrison, IN. *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 4 weeks (145-150 hours). *Version 2:* 5 weeks (206 hours).

Exhibit Dates: *Version 1:* 9/71-10/75. *Version 2:* 10/66-8/71.

Objectives: To train commissioned officers, warrant officers, enlisted and civilian personnel in the techniques of system analysis, including establishment of automated systems and extension of existing systems.

Instruction: Lectures and practical exercises in data processing; systems analysis; ADP management; and statistical methods.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in business systems analysis (3/75). *Version 2:* In the vocational certificate category, 2 semester hours in systems analysis and 2 in data processing principles (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in systems analysis and 2 in data processing principles (4/74); in the upper-division baccalaureate category, 2 semester hours in systems analysis (12/68).

Related Occupation Codes: 74F; 74G; 74Z.

AR-1402-0002

Computer Systems Operator

Course Number: 531-74E20.

Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 5 weeks (153 hours). *Version 2 :* 5 weeks (173-181 hours).

Exhibit Dates: *Version 1:* 12/74-Present. *Version 2:* 9/70-11/74.

Objectives: To teach enlisted and civilian personnel the procedures for operating automatic data processing systems.

Instruction: *All Versions:* Following a brief introduction to data processing, instruction includes lectures and practical exercises on preparation of input/output devices; operating systems for producing, assembling, compiling, and testing in a non-multiprogramming environment; operation of computer system in multiprogramming environment; operation of computer system in teleprocessing environment. *Version 1:* Instruction does not include the operation of computer system in teleprocessing environment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations (3/75). *Version 2:* In the vocational certificate category, 4 semester hours in computer operations (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in computer operations (2/74); in the upper-division baccalaureate category, 2 semester hours in computer operations (2/74).

Related Occupation Codes: 74D.

AR-1402-0003

Automatic Data Processing Systems Analysis Officer

(Automatic Data Processing Systems Analysis)

Course Number: 7E-F1; 12-G-F4; 12-I-F4.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3–4 weeks (116–161 hours).

Exhibit Dates: 4/57–12/68.

Objectives: To train personnel in the principles and procedures of analyzing and designing automatic data processing systems.

Instruction: Introductory lectures on automatic data processing systems; COBOL programming; principles of punched-card data processing; systems and design, including program evolution and review techniques; problem definition; narrative flow techniques; record and file design; and conversion problems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in business systems analysis (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business systems analysis (2/74); in the upper-division baccalaureate category, 2 semester hours in computer programming and data processing analysis (12/68).

AR-1402-0004

Finance (FI-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 5-FI-C40.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 12 weeks (367–395 hours).

Exhibit Dates: 2/73–Present.

Objectives: To train enlisted personnel to perform the duties of noncommissioned officers in the financial management field.

Instruction: Lectures in accounting, comptrollership, staff finance, disbursing, and management principles.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles of accounting, 1 in principles of management (3/75).

Related Occupation Codes: 73C; 73D.

AR-1402-0005

Information Systems Officer (ISO)

(Basic Automatic Data Processing Systems Analysis)

Course Number: 7E-F22; 531-F5.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 4 weeks (148–152 hours).

Exhibit Dates: 8/72–Present.

Objectives: To acquaint non-data processing personnel with general data processing principles.

Instruction: Lectures and practical exercises in punched card data-processing concepts, programming techniques, and systems analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing principles (3/75).

Related Occupation Codes: 290A; 341A; 721A.

AR-1402-0006

Telecommunication Automation Software Technician

Course Number: 4C-741E.

Location: Signal School, Ft. Monmouth, NJ.

Length: 10 weeks (305 hours).

Exhibit Dates: 3/72–Present.

Objectives: To train warrant officers to supervise data processing and telecommunications automation activities.

Instruction: Lectures and practical exercises in planning, operation, and programming of electronic data processing equipment.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (3/74).

Related Occupation Codes: 741E.

AR-1402-0007

AN/TSQ-51 System Maintenance

Course Number: *All Versions:* 4B-361A. *Version 1:* 4F-361A; 150-25K20. *Version 2:* 150-25K20. *Version 3:* 150-F2.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 42–47 weeks (1561–1633 hours). *Version 2:* 34–35 weeks (1314–1344 hours). *Version 3:* 33 weeks (1290 hours).

Exhibit Dates: *Version 1:* 1/75–Present. *Version 2:* 12/69–12/74. *Version 3:* 5/67–11/69.

Objectives: To train enlisted personnel and warrant officers with prior experience in electronic engineering or computer maintenance to operate and maintain fire control computer-linked radar systems.

Instruction: *All Versions:* Lectures and practical exercises in theory and operation of computer-linked fire control radar systems, with emphasis on developing diagnostic testing techniques to isolate faults and repair and maintain equipment; and a general review of computer fundamentals, including numbering systems, programming concepts, flow diagrams, logic functions and circuits, registers, counters, storage devices, and input and output devices. *Version 1:* Topics include AC/DC circuit fundamentals, basic electronics (vacuum tube and solid state), digital fundamentals, machine language programming, and systems operation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electronics and 6 in digital logic and computer science (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and 4 in digital logic and computer science (2/75); in the upper-division baccalaureate category, 3 semester hours as an elective in computer science (2/75). *Version 2:* In the vocational certificate category, 5 semester hours in digital logic or computer science (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in digital logic or computer science (4/74). *Version 3:* In the vocational certificate category, 5 semester hours in digital logic or computer science (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in digital logic or computer science (4/74); in the upper-division baccalaureate category, 2 semester hours in digital logic or computer science, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 09B; 25H; 25B; 25C; 25D; 25E; 25G; 25J; 25K; 25Z; 361A.

AR-1402-0008

PERSINSD ADP Intern Program

Course Number: None.

Location: PERSINSD, Alexandria, VA.

Length: 26 weeks.

Exhibit Dates: 1/75–Present.

Objectives: To attract, develop, and retain qualified civilian and military personnel designated as management interns to serve as programmers and systems analysts in the Personnel Systems Command, Department of the Army.

Instruction: Through lectures, laboratory periods, video-assisted instruction, practical projects, and directed study, the following areas are covered: introduction to UNIVAC 1108 hardware; principles of data processing; systems analysis and design; COBOL programming; data communication concepts and design; operations research techniques; personnel applications project; and the UNIVAC 1100 executive operating system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in COBOL programming, 3 in data processing principles, and 2 in operating systems (5/76); in the upper-division baccalaureate category, 3 semester hours in business systems analysis (5/76).

AR-1402-0009

Auditing of Automatic Data Processing Systems

Course Number: 7E-F5; 14-I-F21.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 2–3 weeks (73–92 hours).

Exhibit Dates: 7/64–Present.

Objectives: To train commissioned officers and civilians to audit data processing systems.

Instruction: Lectures and practical exercises in automatic data processing characteristics, computer programming, controls, system flow charting, data processing systems auditing, statistical sampling, and a case study project.

Credit Recommendation: In the vocational certificate category, 2 semester hours in data processing principles (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in processing principles (4/74); in the upper-division baccalaureate category, 2 semester hours in data processing principles (4/74).

AR-1402-0010

Automatic Data Processing Systems Programming

Course Number: 12-Q-2404; 12-Q-745.1.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 4 weeks (160 hours).

Exhibit Dates: 3/58–12/60.

Objectives: To train warrant officers, enlisted, and civilian personnel to program automatic data processing (ADP) equipment.

Instruction: Lectures and practical exercises in ADP systems basic assembler-programming techniques, including loop and address modification, scaling, and index registers usage; advanced programming techniques; and practical programming exercises.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 2 semester hours in computer programming (12/68).

Related Occupation Codes: 290A; 341A; 721A.

AR-1402-0011

1. AUTODIN Switching Center Specialist
2. ADMS Traffic Service Supervisory

Course Number: *Version 1:* 580-72G30. *Version 2:* 622-F10.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 5 weeks (160 hours). *Version 2:* 6 weeks (198 hours).

Exhibit Dates: *Version 1:* 7/70–Present. *Version 2:* 11/68–6/70.

Objectives: To train data communications switching center specialists to operate an automatic digital message switch in an overseas AUTODIN switching center.

Instruction: Lectures and practical exercises in AUTODIN switching center equipment configuration; technical control facilities operations; off-line operations, including equipment configuration, data word formats, journal and reference trace, printouts, journal balance, tape generation, recovery operations, updating security, and on-site operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in computer operations (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations (4/74). *Version 2:* In the vocational certificate category, 3 semester hours in computer operations (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations (4/74).

Related Occupation Codes: 72G.

AR-1402-0012

Advanced Machine Accounting

Course Number: 12-E-13.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 4 weeks (140 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train experienced punch card machine operators to supervise electrical accounting equipment operation and wiring.

Instruction: Lectures and practical exercises in machine records activities, procedure development and analysis, electrical accounting machine operation, recent development in electrical accounting machines, office management, and training techniques.

Credit Recommendation: In the vocational certificate category, 2 semester hours in unit record data processing (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in unit record data processing (4/74).

AR-1402-0013

Stock Control and Accounting Specialist, Skill Development Base

Course Number: 551-76P20-L.

Location: Quartermaster School, Ft. Lee, VA.

Length: 14 weeks (480 hours).

Exhibit Dates: 2/69–Present.

Objectives: To train stock control and accounting specialists to supervise inventory control and accounting systems.

Instruction: Lectures and practical exercises in DSU and ASDA accounting procedures, automatic data processing systems, miscellaneous accounting and administrative procedures, map reading, inspection procedures, leadership training, physical conditioning, and use of data processing techniques in inventory control.

Credit Recommendation: In the vocational certificate category, 2 semester hours in data processing principles (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (4/74); in the upper-division baccalaureate category, 2 semester hours in data processing principles (4/74).

Related Occupation Codes: 76P.

AR-1402-0014

Data Processing (DP-CMF) NCO Basic

Course Number: 5-DP-C40.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 10 weeks (319 hours).

Exhibit Dates: 11/72–10/75.

Objectives: To train enlisted personnel in basic data processing.

Instruction: Lectures and practical exercises in computer system operations, including advanced computer programming; basic ALC, RPG, and COBOL languages; data processing; advanced card punch machine operating techniques and punch card accounting machine operation; and personnel and leadership management and administration.

Credit Recommendation: In the vocational certificate category, 3 semester hours in unit record data processing, and 3 in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in unit record data processing, and 3 in computer programming (4/74); in the upper-division baccalaureate category, 3 semester hours in computer programming (4/74).

Related Occupation Codes: 71U; 74D; 74E; 74F.

AR-1402-0015

Computer Programming

Course Number: 7E-F10.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (118 hours).

Exhibit Dates: 9/61–Present.

Objectives: To train military and civilian personnel, who have completed an introductory automatic data processing course, in digital programming languages.

Instruction: Lectures and practical exercises in automatic data processing and numbering systems introduction, program documentation, assembler language, FORTRAN and COBOL languages, writing and debugging programs in various languages, and PL/1 and Algol languages.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer concepts (11/76).

AR-1402-0016

Machine Accounting

Course Number: 12-R-753.1; 12-E-3.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 7–8 weeks (256–290 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train enlisted personnel to wire and operate electrical accounting machines and to perform related entry-level duties in machine-accounting activities.

Instruction: Lectures and practical exercises in the wiring and operation of electrical accounting machines and in related machine-accounting activities, including principles of punched-card accounting; operation of card punch, sorter, interpreter, reproducing punch, collator, accounting machine, calculating punch, and accounting machine equipment; and automatic data processing systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in unit record data processing (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in unit record data processing (4/74).

AR-1402-0017

1. Programmer/Analyst
2. Computer Programmer
3. Computer Programmer (ADPS Programming Specialist)
4. ADPS Fieldata Programming Course

Course Number: *Version 1:* 532-74F10; 532-74F20. *Version 2:* 532-74F20. *Version 3:* 532-74F20. *Version 4:* 11-R-745.1.

Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Adjutant General's School, Ft. Benjamin Harrison, IN. *Version 3:* Adjutant General's School, Ft. Benjamin Harrison, IN; Security Agency School, Ft. Devens, MA. *Version 4:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 9–10 weeks (320–342 hours). *Version 2:* 8 weeks (304 hours). *Version 3:* 8–10 weeks (292–357 hours). *Version 4:* 10–11 weeks (356–396 hours).

Exhibit Dates: *Version 1:* 12/74–Present. *Version 2:* 5/73–11/74. *Version 3:* 1/66–4/73. *Version 4:* 10/59–12/65.

Objectives: To train enlisted personnel in computer programming techniques.

Instruction: *All Versions:* Lectures, demonstrations, and practical exercises in compiler-level language programming techniques, including COBOL, FORTRAN, and RPG; assembler language (SAAL) for UNIVAC 1005 system; debugging procedures; program documentation; and automatic data processing fundamentals. *Version 1:* Includes lectures and practical exercises in COBOL and BAL for the IBM 360/370 until 1979. Course then utilizes structured COBOL for an IBM 4331 and IBM 360/40.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in computer programming (3/75). *Version 2:* In the vocational certificate category, 5 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 5 semester hours in computer programming (4/74). *Version 3:* In the vocational certificate category, 5 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 3 semester hours in computing science (12/68). *Version 4:* In the vocational certificate category, 5 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 5 semester hours in computing science (12/68).

Related Occupation Codes: 74F; 74G; 74Z.

AR-1402-0018

1005 Card Processor Programmer

Course Number: 532-F1.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (104 hours).

Exhibit Dates: 4/67-12/68.

Objectives: To train enlisted personnel to program and operate a Univac 1005 in assembler language.

Instruction: Lectures and practical exercises in Univac 1005 assembler language, including instruction set; looping techniques; hardware characteristics; program organization; input/output and transfer instructions; edit, multiply, divide, shift, jump return, jump exit, auxiliary read, read paper tape and punch paper tape instructions; stored program concept; and block-diagram analysis.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer programming (4/74); in the upper-division baccalaureate category, credit in computer programming on the basis of institutional examination (12/68).

AR-1402-0019

Automated Communications Systems Staff Officer

Course Number: 4C-F14.

Location: Signal School, Ft. Monmouth, NJ.

Length: 3 weeks (104 hours).

Exhibit Dates: 8/69-Present.

Objectives: To train military and civilian personnel in automated communications systems management.

Instruction: Lectures in computer components, number systems, input and output devices, real-time and time sharing, computer programming, data transmission and communications control, and AUTODIN and automated command systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in data processing principles (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (4/74); in the upper-division baccalaureate category, 2 semester hours in data processing principles (4/74).

AR-1402-0020

ADMSC Operation Supervisory (Automatic Digital Message Switching Center Operation Supervisory)

Course Number: 4C-F10; 580-72G40; 4C-F10; 622-F3.

Location: Signal School, Ft. Monmouth, NJ.

Length: 7-8 weeks (242-288 hours).

Exhibit Dates: 4/68-Present.

Objectives: To train enlisted data communications specialists and communication center officers to supervise the operation of an overseas AUTODIN automatic digital message switching center.

Instruction: Lectures and practical exercises in supervision of the operation of an overseas AUTODIN automatic digital message switching center, including computer numbering systems, block diagrams, and programming; and AUTODIN tributaries, equipment configuration and subsystems, programming, operations, and off-line operating procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (2/74).

Related Occupation Codes: 72B.

AR-1402-0021

ADMS Programmer

Course Number: *All Versions:* 622-F9. *Version 1:* 4C-F15.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 10 weeks (342-362 hours). *Version 2:* 7 weeks (248 hours).

Exhibit Dates: *Version 1:* 4/70-Present. *Version 2:* 4/68-3/70.

Objectives: To train enlisted automatic data processing programming specialists and automatic data processing plans and operations officers to write, document, and implement changes in assembly languages associated with AUTODIN automatic digital message switching centers.

Instruction: Lectures and practical exercises in writing, documentation, and change implementation in assembly languages associated with AUTODIN automatic digital message switching centers, including information flow, arithmetic and logic; shifting and branching instructions; processor configuration, programming, and console operations; and operational programming.

Credit Recommendation: *Version 1:* In the vocational certificate category, 7 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 7 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 7 semester hours in computer programming (4/74). *Version 2:* In the vocational certificate category, 5 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 5 semester hours in computer programming (4/74).

Related Occupation Codes: 74F.

AR-1402-0022

Data Processing (DP-CMF) NCO Advanced

Course Number: 5-741-C42; 5-DP-C42.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 10-12 weeks (373-444 hours).

Exhibit Dates: 12/72-Present.

Objectives: To provide enlisted personnel with training in data processing principles and data processing analysis.

Instruction: Lectures and practical exercises in automatic data processing principles, computer programming techniques, systems analysis and design, operations research techniques, data processing management techniques, creative writing, and effective speaking.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles, 2 in business systems analysis, 1 in communication skills, and 1 in management principles (3/75).

Related Occupation Codes: 74C; 74D; 74E; 74F; 74G.

AR-1402-0023

Improved Hawk Fire Control Repair Transition

Course Number: *All Versions:* 104-24H20-T. *Version 1:* 104-24H40-T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 29 weeks (1152 hours). *Version 2:* 19 weeks (666-672 hours).

Exhibit Dates: *Version 1:* 1/77-Present. *Version 2:* 1/72-12/76.

Objectives: To train enlisted personnel to maintain the electronic systems of the improved Hawk battery control central, the information and coordination central, and the improved radar signal simulator.

Instruction: Lectures and practical exercises in Hawk battery control central special circuits and test equipment; computer mathematics introduction; computer codes, logic circuits, memory units, input/output units, and control units; data processing; power unit distribution systems; radar signal simulator and associated test equipment operation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in computer fundamentals, 6 in electronics laboratory (8/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer fundamentals, 1 in electronics laboratory (8/77). *Version 2:* In the vocational certificate category, 3 semester hours in data processing principles (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in data processing principles (4/74); in the upper-division baccalaureate category, 3 semester hours in data processing principles (4/74).

Related Occupation Codes: 23Q; 24H.

AR-1402-0024

Personnel Data Analyst Specialist

Course Number: 531-74C20.

Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 7 weeks (220 hours). *Version 2:* 6 weeks (202 hours).

Exhibit Dates: *Version 1:* 6/74-Present. *Version 2:* 4/72-5/74.

Objectives: To train enlisted personnel to analyze and code personnel data and source documents for automated processing.

Instruction: *All Versions:* Lectures and practical exercises in the duties of personnel data analysts and specialists. *Version 2:* Course work includes principles of punched card accounting and personnel accounting systems principles and procedures.

Credit Recommendation: *Version 1:* No credit because of the military nature of the course (3/75). *Version 2:* In the vocational certificate category, 1 semester hour in punch card processing (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in punch card processing (2/74).

Related Occupation Codes: 71H; 74C.

AR-1402-0025

Supply and Service Officer

Course Number: 8A-4200; 8B-4200.

Location: Quartermaster School, Ft. Lee, VA

Length: 9–10 weeks (320–346 hours).

Exhibit Dates: 1/68–Present.

Objectives: To train commissioned officers to manage supply activities.

Instruction: Lectures and practical exercises in supply operations in a theater of operations, including supply organization, supply accounting procedures, automatic data processing, procurement and property disposal, financial management, storage operations, maintenance services, military management, and mechanized stock accounting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in automatic data processing, 2 in purchasing or procurement (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automatic data processing, 2 in purchasing or procurement (6/74); in the upper-division baccalaureate category, 1 semester hour in automatic data processing, 1 in purchasing or procurement (6/74).

AR-1402-0026

Field Artillery Ballistic Missile Officer

Course Number: 2E-1190.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 9 weeks (319–328 hours).

Exhibit Dates: 3/68–Present.

Objectives: To train commissioned officers to supervise tactical deployment, system maintenance, and operation of Pershing and Sergeant missile systems.

Instruction: Lectures and practical exercises in Pershing and Sergeant missile systems operations supervision. Course includes communications and electronics (equipment, procedures, and systems); digital computers; guided missiles, including warheads, launchers, and organizational and preventive maintenance; and tactical subjects.

Credit Recommendation: In the vocational certificate category, 1 semester hour in digital computer familiarization (6/74).

AR-1402-0027

Improved Hawk Maintenance Technician/Chief Transition

Course Number: 4F-251D-T; 121-24V50-T.

Location: Missile and Munitions School, Redstone Arsenal, . L.

Length: *Version 1:* 20 weeks (670 hours). *Version 2:* 19 weeks (664–670 hours).

Exhibit Dates: *Version 1:* 8/75–11/78. *Version 2:* 1/72–7/75.

Objectives: To train warrant officers and enlisted personnel to supervise the maintenance and logistics activities for the Improved Hawk system and associated test equipment.

Instruction: *All Versions:* Lectures and practical exercises in the supervision of maintenance activities on the Improved Hawk missile system. Course includes all aspects of the missile system and digital computer fundamentals. *Version 1:* Includes significant coverage of computer architecture and programming.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in computer fundamentals, 3 in electronics laboratory (8/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer fundamentals (8/77). *Version 2:* In the vocational certificate category, 3 semester hours in digital computer fundamentals (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in digital computer fundamentals (6/74).

Related Occupation Codes: 251D; 24V; 251C; 23V.

AR-1402-0028

Associate Adjutant General Officer Career

Course Number: 7-12-C23; 12-A-C23.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 16 weeks (589–620 hours).

Exhibit Dates: 6/62–12/68.

Objectives: To train commissioned officers, who have completed the AG officer basic course or its equivalent, in the duties and responsibilities of Adjutant General Corps officers.

Instruction: Lectures and practical exercises in the duties and responsibilities of Adjutant General Corps officers, including fundamental military subjects, general education subjects, administrative services, personnel actions, personnel management, postal services, special services, data processing, fundamentals of division operations, combat and combat service support, and command and staff operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing (7/74); in the upper-division baccalaureate category, 3 semester hours in personnel management (12/68).

AR-1402-0029

Special Purpose Equipment Repair Parts Specialist, Skill Development Base

Course Number: 551-76Q20-I.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (427 hours).

Exhibit Dates: 12/68–Present.

Objectives: To train enlisted special purpose equipment repair parts specialists to perform as seasoned supervisors and technicians.

Instruction: Lectures and practical exercises in the duties of special purpose equipment repair parts specialist supervisors, including exercise of command, inspections, map reading, internal defense/development, field training, administration, instructor training, DSU accounting procedures, ASDA accounting procedures, automatic data processing systems, storage operations, and special purpose equipment repair parts supply.

Credit Recommendation: In the vocational certificate category, 1 semester hour in data processing (7/74).

Related Occupation Codes: 76Q.

AR-1402-0030

Computer Machine Operator

(Automatic Data Processing (ADP) Machine Operation Specialist)

(Data Processing Equipment Operator)

Course Number: *Version 1:* 531-74D10. *Version 2:* 531-74D20. *Version 3:* 531-74D20; 531-74A10; 12-R-740;0 531-740.0.

Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 3:* Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 5 weeks (184 hours). *Version 2:* 5 weeks (168 hours). *Version 3:* 5–8 weeks (152–302 hours).

Exhibit Dates: *Version 1:* 8/79–Present. *Version 2:* 12/74–7/79. *Version 3:* 3/59–11/74.

Objectives: To train enlisted personnel to operate automatic data processing systems.

Instruction: *Version 1:* Instruction includes communication with the IBM 360 computer system while operating with a disc operating system and a Disc operating system enhanced. *All Versions:* Lectures and practical exercises in the operation of automatic data processing systems. Course includes principles of punched card accounting; introduction to automatic data processing systems; preparation of i/o devices; operating systems for production, compiling, and testing in a non-multiprogramming environment; and operation of a computer system in a multiprogramming environment; Includes communication with the IBM 360 computer system while operating with a Disc Operating System and a Disc Operating System Enhanced. *Version 2:* Includes instruction in unit-record equipment, including the 129 data recorder, the 083 sorter, the 557 interpreter, the 188 collator, and the Univac 1005 card processor.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in unit record data processing (2/80). *Version 2:* In the vocational certificate category, 3 semester hours in unit record data processing (3/75). *Version 3:* In the vocational certificate category, 2 semester hours in unit record and computer operation (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in unit record and computer operation (7/74); in the upper-division baccalaureate category, 2 semester hours in unit record and computer operation (12/68).

Related Occupation Codes: 74E.

AR-1402-0031

Automatic Data Processing Systems for Staff Officers

Course Number: FE-F2; 11-G-F3; 11-G-F1; 11-O-33.

Location: Signal School, Ft. Monmouth, NJ.

Length: 3-5 weeks (110-159 hours).

Exhibit Dates: 3/57–12/68.

Objectives: To train commissioned officers and civilians in the fundamentals, applications, and systems engineering techniques of military automatic data processing systems.

Instruction: Lectures and practical exercises in military automatic data processing systems, including computer programming, ADP systems analysis, command control systems, instruction and coding, Common Business Oriented Language (COBOL), detailed flow charting; tactical automated command control systems; and trends in computer and auxiliary equipment development.

Credit Recommendation: In the vocational certificate category, 3 semester hours in introduction to data processing (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing (7/74).

AR-1402-0032

COBOL Programming

Course Number: 7E-F11.

Location: Management Engineering Training Agency, Rock Island, IL.
Length: 2 weeks (78 hours).
Exhibit Dates: 10/63–Present.
Objectives: To provide the student with an introduction to COBOL programming and the necessary elements—language structure, compiler functions, and COBOL standards—to write programs of significant complexity.
Instruction: Course provides an introduction to ANSI COBOL including formulations of divisions, language structure, program logic and design and analysis techniques of compiled programs. Completion of several COBOL programs involving increasingly more difficult programming concepts is required.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in COBOL programming (11/76).

AR-1402-0033

1. Financial Management Systems Automated Applications
2. Financial Management Systems—Automatic Data Processing

Course Number: *Version 1:* 7E-F20; 531-F4. *Version 2:* 7E-F3; 531-F3; 14-K-F20.
Location: Finance School, Ft. Benjamin Harrison, IN.
Length: *Version 1:* 4 weeks (151–160 hours). *Version 2:* 3–4 weeks (113 hours).
Exhibit Dates: *Version 1:* 7/67–12/68. *Version 2:* 5/64–6/67.
Objectives: To train officer, enlisted, and civilian personnel in financial management and supply accounting.
Instruction: Lectures in data processing, machine language and components, orientation to COBOL, accounting systems, financial management and supply accounting.
Credit Recommendation: *All Versions:* In the vocational certificate category, 3 semester hours in introduction to data processing (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing (7/74); in the upper-division baccalaureate category, 2 semester hours in computer programming and analysis in the field of data processing (12/68). *Version 2:* In the vocational certificate category, 3 semester hours in introduction to data processing (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing (7/74); in the upper-division baccalaureate category, 2 semester hours in data processing in financial operations (12/68).

AR-1402-0034

1. Financial Management—Machine Accounting Systems
2. Financial Management—Machine Accounting

Course Number: *Version 1:* 14-K-F14. *Version 2:* 14-L-F14.
Location: Finance School, Ft. Benjamin Harrison, IN.
Length: *Version 1:* 5 weeks (189 hours). *Version 2:* 3 weeks (112–114 hours).
Exhibit Dates: *Version 1:* 7/63–12/68. *Version 2:* 5/60–6/63.
Objectives: To train officers and enlisted personnel to operate punched-card equipment and the automatic data processing for supply accounting systems.
Instruction: Lectures and practical exercises in punched-card machine operation, automatic data processing procedures and equipment operation, computer languages, and flow-charting techniques.
Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in data processing or financial operations (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in data processing or financial operations (7/74); in the upper-division baccalaureate category, 2 semester hours in data processing or financial operations (12/68). *Version 2:* In the vocational certificate category, 2 semester hours in unit record equipment (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in unit record equipment (7/74).

AR-1402-0035

Automatic Data Processing (ADP) Officer
(ADPS Plans and Operations Officer)
(ADPS (Fieldata) Plans and Operations Officer)

Course Number: *All Versions:* 7E-53C; 7E-2402; 7E-741C. *Version 1:* 7E-741A. *Version 3:* 7E-2402; 11-A-2402.
Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 3:* Adjutant General's School, Ft. Benjamin Harrison, IN; Signal School, Ft. Monmouth, NJ.
Length: *Version 1:* 13 weeks (486 hours). *Version 2:* 13 weeks (462 hours). *Version 3:* 11 weeks (385–414 hours).
Exhibit Dates: *Version 1:* 5/76–Present. *Version 2:* 7/74–4/76. *Version 3:* 7/61–6/74.
Objectives: To train commissioned and warrant officers to plan for and operate automatic data processing systems and equipment.
Instruction: *All Versions:* Lectures and practical exercises in principles of automatic data processing systems, communications in automatic data processing systems, techniques in computer programming, and systems analysis. *Version 1:* Includes principles and techniques of automatic data processing, computer programming, quantitative analysis, systems analysis and design , and management of ADP systems. *Version 2:* Includes programming techniques in COBOL and BAL, installation management, quantitative analysis, systems analysis, and general principles of data processing.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in quantitative analysis and decision theory, 1 in CIS language (assembler), 2 in CIS language (COBOL), 2 in CIS language (operating systems) (1/78); in the upper-division baccalaureate category, 3 semester hours in operations research and planning, 3 in management of ADP systems(1/78). Credit is to be granted in either the lower division baccalaureate/associate degree category or the upper division category but not in both. *Version 2:* In the upper-division baccalaureate category, 2 semester hours in data processing management, 1 in data processing principles, 4 in computer programming, and 3 in systems analysis (3/75). *Version 3:* In the vocational certificate category, 3 semester hours in principles of data processing, 3 in assembler language programming, and 3 in systems analysis (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing, 3 in assembler language programming, and 3 in systems analysis (7/74); in the upper-division baccalaureate category, 3 semester hours in principles of data processing (12/68).

AR-1402-0036

1. Automatic Data Processing Systems (ADPS) Console Operator
2. ADPS Console Operation
3. ADPS (Fieldata) Console Operation

Course Number: *Version 1:* 531-74E20. *Version 2:* 531-744.1. *Version 3:* 11-R-744.1.
Location: *Version 1:* Security Agency School, Ft. Devens, MA. *Version 2:* Signal School, Ft. Monmouth, NJ. *Version 3:* Signal School, Ft. Monmouth, NJ.
Length: *Version 1:* 10–11 weeks (363–395 hours). *Version 2:* 9 weeks (326 hours). *Version 3:* 9 weeks (318 hours).
Exhibit Dates: *Version 1:* 6/67–9/70. *Version 2:* 7/65–5/67. *Version 3:* 5/59–6/65.
Objectives: To train enlisted personnel to operate a computer console (IBM 1401).
Instruction: Lectures and practical exercises in the operation of a computer console (IBM 1401). Course includes electrical accounting machines; operation of tape units; coding instructions for components; production of reports using reports program generator (RPG) and general file operators (GFO).
Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in principles of data processing, 3 in computer operations (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74); in the upper-division baccalaureate category, 3 semester hours in principles of data processing (7/74). *Version 2:* In the vocational certificate category, 3 semester hours in principles of data processing, 3 in computer operations (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74); in the upper-division baccalaureate category, 5 semester hours in computer operation in the field of data processing (12/68). *Version 3:* In the vocational certificate category, 3 semester hours in principles of data processing, 3 in computer operations (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74); in the upper-division baccalaureate category, 3 semester hours in computer operation in the field of data processing (12/68).
Related Occupation Codes: 74E; 74F.

AR-1402-0037

Automatic Data Processing for Auditors (ADPAC)

Course Number: None.
Location: Logistics Management Center, Ft. Lee, VA.
Length: *Version 1:* 2 weeks (78 hours). *Version 2:* 3 weeks (117 hours).
Exhibit Dates: *Version 1:* 3/75–Present. *Version 2:* 1/73–2/75.
Objectives: To train auditors and internal review personnel in ADP systems concepts and controls.
Instruction: Lectures and practical exercises in automatic data processing, including ADP systems input, output, and processing characteristics and controls; organizational controls, preinstallation controls; documentation controls; computer operations controls; and tools for developing and evaluating controls.
Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 se-

mester hours in introduction to data processing (12/75). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in automatic data processing (12/68).

AR-1402-0038

Army Security Agency Card and Tape Writer

Course Number: 531-74B20.

Location: Security Agency School, Ft. Devens, MA.

Length: 6-8 weeks (274 hours).

Exhibit Dates: 1/65-Present.

Objectives: To train enlisted personnel to be key punch operators.

Instruction: Lectures in communications fundamentals, cryptanalysis, basic data processing, automatic data processing, electrical accounting machine use, and key punch operations.

Credit Recommendation: In the vocational certificate category, 6 semester hours in data processing (2/74).

Related Occupation Codes. 74B; 74D; 74E; 74F.

AR-1402-0039

Automatic Data Processing Intern Program

Course Number: AMETA-22.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 15 weeks (587 hours).

Exhibit Dates: 7/71-Present.

Objectives: Course is designed for new programmers to provide them with in-depth knowledge and practice in several programming languages, including COBOL, S360 Assembler, and Job Control Language, and in debugging techniques and systems analysis and design concepts.

Instruction: This course covers the fundamentals of computer programming; S360 Assembler Language; JCL for COBOL programmers; COBOL programming, special features, and debugging; JCL and utilities workshop; ADP systems analysis and design; COBOL access methods; and DARCOM orientation. The intern program provides a continuing environment of computing exercises and interaction with the instructors and peers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in COBOL, 3 semester hours in advanced COBOL (11/76); in the upper-division baccalaureate category, 4 semester hours in S360 Assembler Language, 3 in systems analysis (11/76).

AR-1402-0040

S360 Assembler Language

Course Number: AMETA-28.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 10/73-Present.

Objectives: To provide an introduction to IBM S360 Assembler language and to provide the details of the language so that the student can write, test, and debug programs on an S360.

Instruction: This course provides the instruction to write programs using the S360 Assembler Language. Topics covered and practiced include instruction formats of arithmetic logic, data movement and branching instructions. Also covered are the input/output MACROS, data types and formats, including binary, character, and packed. Progressively more difficult programs are assigned to apply newly acquired programming instructions and techniques.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in S360 Assembler Language (11/76).

AR-1402-0041

ADP Systems Analysis and Design

Course Number: 7E-F18.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 2 weeks (78 hours).

Exhibit Dates: 9/64-Present.

Objectives: To provide a study of the overall computer-based systems analysis and design process and to prepare the student to assist in the development of a system which will be consistent with the potential of the computer and management needs.

Instruction: Course provides an overview of computer systems, detailed explanation and use of systems analysis techniques, including flowcharting, grid charting document relationships, constructing decision tables, designing records and files for computer processing and case studies for application of the techniques.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in computer systems analysis (11/76).

AR-1402-0042

Defense Numerical Control (APT) Part Programming

(Computer-Aided Manufacturing Part Programming (APT))

(Numerical Control Part Programming)

Course Number: AMETA-17; 7A-F46.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 1/71-Present.

Objectives: To provide students with a working knowledge of the Automatically Programmed Tools (APT) language. Primary emphasis is placed on qualifying students to write part programs for numerically controlled machine tools.

Instruction: Technique training in the use of the APT part-programming language. Increasingly difficult programming exercises in writing part programs are presented and tested on appropriate computers. An actual worksite project is completed. Because of similarity of APT, UNIAPT, ADAPT, and EXAPT part-programming languages, most of the training in this course is directly applicable to those using computer languages other than APT.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in numerical control programming (11/76).

AR-1402-0043

Assembler Programming

Course Number: None.

Location: Army Computer Systems Command, Ft. Belvoir, VA; Army Computer Systems Command, Support Group, Ft. Lee, VA; Army Computer Systems Command, Support Group, Ft. McPherson, GA; Army Computer Systems Command, Support Group, Ft. Shafter, HI; Army Computer Systems Command, Zweibruken, Germany.

Length: 4-5 weeks (140 hours).

Exhibit Dates: 6/70-Present.

Objectives: To provide students with a thorough understanding of Basic Assembler Language for the IBM 360/370.

Instruction: Program consists of two modules: Assembly Language Coding and Assembly Language Coding Workshop. Subject matter includes standard instruction set, decimal instruction set, branching, logic, Boolean instructions, editing, and translation. Subroutine linkage, I/O macros, debugging, indexing, and necessary job control language are included. Objectives can be accomplished through self-study or formal classroom.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in assembler programming (5/77).

AR-1402-0044

Data Processing Principles

Course Number: None.

Location: Army Computer Systems Command, Ft. Belvoir, VA; Army Computer Systems Command, Support Group, Ft. Lee, VA; Army Computer Systems Command, Support Group, Ft. McPherson, GA; Army Computer Systems Command, Support Group, Ft. Shafter, HI; Army Computer Systems Command, Zweibruken, Germany.

Length: 4 weeks (126 hours).

Exhibit Dates: 6/70-Present.

Objectives: To provide students with an understanding of how a computer works and its major components.

Instruction: Program consists of three modules: Computer Systems Fundamentals, Fundamentals of Programming, and Introduction to System 360/370. Subject matter includes programming concepts, problem analysis, flow charting, decision tables, coding, number systems, and punched-card principles. Additional problem solution techniques, such as program loops, subroutines, counters and switches, and tables, are covered. The architecture and organization of the IBM 360/370 are included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing principles (5/77).

AR-1402-0045

Operating Systems

Course Number: None.

Location: Army Computer Systems Command, Ft. Belvoir, VA; Army Computer Systems Command, Support Group, Ft. Lee, VA; Army Computer Systems Command, Support Group, Ft. McPherson, GA; Army Computer Systems Command, Support Group, Ft. Shafter, HI; Army Computer Systems Command, Zweibruken, Germany.

Length: 5 weeks (140 hours).

Exhibit Dates: 6/70-Present.

Objectives: To provide students with a general overview of operating systems, with emphasis on the IBM Operating System (OS) and the Disk Operating System (DOS).

Instruction: Program consists of six modules: Disk Operating System Job Control Language (DOS JCL), Introduction to Disk Operating Systems (DOS), Operating Systems (OS), Concepts and Facilities, Operating Systems Job Control Language (OS JCL), Operating Systems (OS) Utilities, and File Organization and Access Methods (FOAM). Course covers concepts, facilities, vocabulary and characteristics of operating systems. Topics include Disk Operating Systems (DOS), DOS Job Control Language (DOS JCL), Operating Systems (OS) Concepts and Facilities, OS Utilities, OS

Job Control Language (JCL), and File Organization and Access Methods (FOAM). The course objectives can be accomplished by self-study or by formal classroom.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operating systems (5/77).

AR-1402-0046

COBOL Programming Advanced

Course Number: None.

Location: Army Computer Systems Command, Ft. Belvoir, VA; Army Computer Systems Command, Support Group, Ft. Lee, VA; Army Computer Systems Command, Support Group, Ft. McPherson, GA; Army Computer Systems Command, Support Group, Ft. Shafter, HI; Army Computer Systems Command, Zweibruken, Germany.

Length: 4–5 weeks (168 hours).

Exhibit Dates: 6/70–Present.

Objectives: To provide a realistic work environment where the student can practice COBOL programming skills.

Instruction: Program consists of three modules: Structured Coding Workshop, Structured Programming Technologies Overview, and Practical Workshop in Advanced COBOL. The program involves modification of an Indexed Sequential Access Method (ISAM) program to conform to radically changed specifications. The student must also modify a program to run under a different operating system. Structured coding and ISAM applications are emphasized. Objectives may be accomplished through self-study or formal classroom.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in advanced COBOL programming (5/77).

AR-1402-0047

COBOL Programming

Course Number: None.

Location: Army Computer Systems Command, Ft. Belvoir, VA; Army Computer Systems Command, Support Group, Ft. Lee, VA; Army Computer Systems Command, Support Group, Ft. McPherson, GA; Army Computer Systems Command, Support Group, Ft. Shafter, HI; Army Computer Systems Command, Zweibruken, Germany.

Length: 4 weeks (140 hours).

Exhibit Dates: 6/70–Present.

Objectives: To provide extensive coverage of the fundamentals of COBOL programming.

Instruction: Program consists of two modules: ANS COBOL and ANS COBOL Workshop. Provides training in all standard ANS COBOL fundamentals. In addition, the SORT verb is included. Several practical programming exercises emphasize both sequential and indexed sequential file organization methods. Objectives can be accomplished through self-study or formal classroom presentation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in COBOL programming (5/77).

AR-1402-0048

Business Systems Analysis

Course Number: None.

Location: Army Computer Systems Command, Ft. Belvoir, VA; Army Computer Systems Command, Support Group, Ft. Lee, VA; Army Computer Systems Command, Support Group, Ft. McPherson, GA; Army Computer Systems Command, Support Group, Ft. Shafter, HI; Army Computer Systems Command, Zweibruken, Germany.

Length: 4 weeks (140 hours).

Exhibit Dates: 6/70–Present.

Objectives: To provide students with an understanding of systems analysis, design, and implementation for organizational problem solving.

Instruction: Program consists of two modules: System Analyst Training (SAT) and Structured Design/Documentation Workshop. Course covers principles and techniques required in the analysis and design of information processing systems. Topics include defining study objectives, interviewing and gathering information, documentation, analyzing available information, selecting and designing a solution, types of controls, quantitative techniques and structured design techniques including the top down approach, HIPO, and Program Design Language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business systems analysis (5/77).

AR-1402-0049

Combat Communications-Electronics Advanced

Course Number: 4C-OA25.

Location: Signal School, Ft. Gordon, GA.

Length: 14 weeks (550 hours).

Exhibit Dates: 12/76–Present.

Objectives: To prepare Signal Corps officers to command and train signal units; to serve as staff officers at batallion level; to install, maintain, and manage tactical communications systems in support of combat operations; and to advise the commander or staff on the installation and operation of communications and electronic systems.

Instruction: Lectures, demonstrations and practical exercises in antenna and wave form propagation procedures, teletype, transmission, and functional systems relevant to requirements, and effective combat communications.

Credit Recommendation: In the vocational certificate category, 3 semester hours in introduction to data processing (4/77).

AR-1402-0050

Automated High Frequency Direction Finding (HFDF) System Operation (EELPOT)

Course Number: 231-F11.

Location: Intelligence School, Ft. Devens, MA.

Length: 5 weeks (200 hours).

Exhibit Dates: 6/76–Present.

Objectives: To familiarize direction-finding operators with the EELPOT system, its configuration, equipment, and manned-operator positions.

Instruction: Operation of the net control processing unit (NCPU), the out-station processing unit (OPU), a video-display computer terminal, a line printer, and the direction-finding (DF) controller. Program is oriented to maintenance and operation of Honeywell equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer operation (9/77).

AR-1402-0051

Security in ADP Systems

Course Number: ALM-51-0297.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (78 hours).

Exhibit Dates: 6/76–Present.

Objectives: To provide students with an awareness of the necessity for and means of achieving a satisfactory level of security in automatic data processing facilities.

Instruction: Lectures and workshop exercises cover the design of security systems for automatic data processing facilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in ADP systems security (12/76).

AR-1402-0053

Digital European Backbone (DEB) Multiplex Equipment Repair

Course Number: 101-F17.

Location: Signal School, Ft. Gordon, GA.

Length: 5 weeks (183 hours).

Exhibit Dates: 5/77–8/79.

Objectives: *Version O:* Student learns to repair several specific pieces of electronic digital multiplex systems.

Instruction: The course includes a brief introduction to digital logic circuits and block diagrams and discussion of each block of the system. Emphasis is on troubleshooting the system. Actual input and output waveforms are related to system blocks.

Credit Recommendation: In the vocational certificate category, 2 semester hours in digital circuits, 2 in troubleshooting (8/79). In the lower-division baccalaureate/associate degree category, 1 semester hour in digital circuitry, 1 in troubleshooting (8/79).

Related Occupation Codes: 26V, 32E.

AR-1402-0054

Programmer Analyst

Course Number: 531-74F10.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: *Version 6:* 6 weeks (311 hours).

Exhibit Dates: 10/75–Present.

Objectives: To provide a knowledge of techniques of compiler-level language programming, using ANS COBOL and the principles and techniques of compiler programming, and to teach students to write, analyze, interpret, and debug COBOL programs and read assembler language programs.

Instruction: Through lectures, demonstrations, and laboratory exercises using the IBM 360 and supported software, students acquire knowledge of and competencies for programming functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automatic data processing, 5 in CIS COBOL (2/78).

Related Occupation Codes: 74F.

AR-1402-0055

Computer/Machine Operator

Course Number: 531-74D10.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 5 weeks (212 hours).

Exhibit Dates: 11/75–Present.

Objectives: To provide a knowledge of the principles of punched card data processing, to introduce automatic data processing, and to prepare the student for disk operating systems and the operation of a computer system in a multiprogramming environment.

Instruction: Lectures and demonstrations emphasizing hands-on experience with the computer and peripheral equipment.

Credit Recommendation: In the vocational certificate category, 5 semester hours in computer operator training (2/78).

Related Occupation Codes: 74D.

AR-1402-0056

MANAGEMENT SYSTEMS SUPPORT AGENCY (USAMSSA) ADP INTERN. PROGRAM

Course Number: None.

Location: Management Systems Support Agency, Washington, DC.

Length: 16 weeks (611 hours).

Exhibit Dates: 9/77–Present.

Objectives: To provide junior-level programmers with a basic knowledge of computer hardware and operating systems.

Instruction: Students will obtain a general knowledge of the history and scope of data processing; learn the flow of a job from submission to completion; learn to solve elementary arithmetic problems in hexadecimal and binary systems, flowchart programming problems, code basic Job Control Language statements, and code, test, and debug elementary FORTRAN and COBAL programs. Topics include fundamentals of programming, system analysis, introduction to ASKIT/CALIT/GETIT, system 370, utilities, and computer operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in COBOL programming, 2 in data processing principles, 2 in operating systems, 2 in business systems analysis (6/78).

AR-1402-0057

INTEGRATED FACILITIES SYSTEM

Course Number: ALM-59U210; ALM-59U260; ALM-59U310.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 3 weeks (95 hours).

Exhibit Dates: 1/75–Present.

Objectives: To train functional personnel to convert to and update computer files in Real Property Maintenance, Asset Accounting, and Facilities Engineering Management Systems.

Instruction: Programmed instruction texts and practical exercises in Real Property Maintenance, Asset Accounting, and Facilities Engineering Management Systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in integrated facilities system application (3/78).

AR-1402-0058

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST/LANCE REPAIR TRANSITION

Course Number: 121-27B20-T.

Location: Missile & Munitions Center, Redstone Arsenal, AL.

Length: Phase I, 18 weeks; Phase II, 4 weeks, for a total of 22 weeks (711 hours).

Exhibit Dates: 10/77–Present.

Objectives: In Phase I qualified personnel (MOS27D) are trained in the new procedures and techniques required to repair an updated version of a Land Combat Support System. In Phase II qualified personnel (MOS27B) are trained in new procedures and techniques of repairing an updated version of a Lance Missile System.

Instruction: Phase I includes lectures and practical exercises on equipment relative to the Land Combat Support System including computer display panels, computer printers, computer processing and other computer components; Boolean algebra, logic functions, logic electronics and basic computer electronics; computer systems operation and troubleshooting including digital multimeter, programmable power supplies, waveform generators and other various test instruments. Phase II consists of lectures and practical exercises in the operation, maintenance and repair of a Lance Missile System including guidance system, rocket motor testing, storage procedure and N-C ad battery servicing.

Credit Recommendation: In the vocational certificate category, For those completing MOS27D, 6 semester hours in computer electronics repair and maintenance (8/79); in the lower-division baccalaureate/associate degree category, For those completing MOS27D, 3 semester hours in basic computer systems, 3 in computer systems operations, 3 in computer electronics maintenance and repair (8/79). NOTE: For those students completing MOS27B (Phase II) credit is not recommended because of the military-specific nature of the course (8/79).

AR-1403-0001

MEDICAL RECORDS SPECIALIST

(Medical Records and Reports (Basic))

Course Number: 513-71G10; 513-71G20; 8-R-715.1.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: 6–8 weeks (210–282 hours).

Exhibit Dates: 9/58–Present.

Objectives: To train enlisted personnel in basic and advanced medical records administration.

Instruction: Lectures and practical exercises in the preparation, processing, and review of medical records and reports; familiarization with medical terminology; general administrative procedures; and physical conditioning.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in medical terminology (12/68).

Related Occupation Codes: 71G.

AR-1403-0002

LEGAL CLERK

Course Number: 512-71D20.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 8–9 weeks (257–345 hours).

Exhibit Dates: 2/73–Present.

Objectives: To provide enlisted personnel with introductory concepts of military administrative law and Army claims systems with emphasis on the practical processing skills and procedures involved.

Instruction: Lectures on Army claims system and board proceedings, e.g. investigative boards; Article 15; non-judicial punishment; identification and preparation of charges and specifications for summary court martial proceedings and special court martial proceedings; posttrial actions. Practical exercises in the use of basic forms in the above areas including drafting documents, application of rules of law to facts, digesting testimony, and preliminary legal research.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in paralegal training programs (11/75).

Related Occupation Codes: 71B; 71D.

AR-1404-0001

POSTAL OPERATIONS

Course Number: 7A-0030; 515-71F20; 515-71F30; A-515-0018 (USN); 7A-515-0161 (USMC); 7A-515-0160 (USMC); 12-R-714.1; 12-E-14.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 4–5 weeks (124–187 hours).

Exhibit Dates: 8/55–Present.

Objectives: To provide officers and enlisted personnel with the fundamental techniques and procedures of military post office management.

Instruction: Lectures in postal organization, facilities, and operations; and practical experience in mail handling.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/74).

Related Occupation Codes: 71F.

AR-1404-0002

CRYPTOGRAPHY

Course Number: 11-R-722.1; 11-E-18.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 9 weeks (318–320 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train enlisted personnel to use cryptographic systems and equipment to encrypt and decrypt classified messages.

Instruction: Lectures and practical exercises in basic communications center procedures, military cryptography, military typing, teletypewriter operation, and tape relay.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/74).

AR-1404-0003

AMPLITUDE MODULATED RADIO TELETYPEWRITER EQUIPMENT OPERATION

Course Number: 201-F1.

Location: Signal School, Ft. Gordon, GA.

Length: 2 weeks (63 hours).

Exhibit Dates: 11/78–Present.

Objectives: To provide selected personnel with knowledge to install, operate, and perform operator maintenance on specialized radio teletypewriter and radio set.

Instruction: Provides a working knowledge of radio teletypewriter AN/GRC-46 and radio set AN/GRC 26D, including operation, installation, tuning, modes of operation, and performance testing. Student must demonstrate ability on equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (2/79).

Related Occupation Codes: 05C.

AR-1404-0004

CENTRAL OFFICE SWITCHBOARD OPERATOR

(Telephone Switchboard Operation)
(Switchboard Operator)
(Central Office Telephone Switchboard Operation)

Course Number: 580-72C20; 11-R-724.1; 11-E-32.

Location: Southeastern Signal School, Ft. Gordon, GA; Signal School, Ft. Gordon, GA.

Length: 6–8 weeks (206–284 hours).

Exhibit Dates: 11/55–Present.

Objectives: To train enlisted personnel in the operation, installation, and maintenance of telephone switchboards.

Instruction: Practical experience in operation, maintenance, and installation of telephone switchboard equipment.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (3/74).

Related Occupation Codes: 72C; 31Z.

AR-1404-0005

Signal Security (SIGSEC) Specialist
(Communications Security Monitor)

Course Number: 231-05G10; 231-05G20.

Location: Security Agency School, Ft. Devens, MA; Intelligence School, Ft. Devens, MA.

Length: 17–18 weeks (519–610 hours).

Exhibit Dates: 4/77–Present.

Objectives: To train enlisted personnel to monitor electronic communications.

Instruction: Lectures in communications and security procedures of a limited technical nature. Course includes map reading, signal communications, cryptosecurity, security analysis, electronic security and warfare, and SIGSEC organization and monitoring operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in typing, PBX operation (9/77).

Related Occupation Codes: 05G.

AR-1404-0006

1. Signal Officer Basic
2. Signal Officer Basic
   (Signal Officer Orientation)
3. Signal Officer Basic
   (Signal Corps Officers Basic)
4. Signal Corps Officers Basic

Course Number: *Version 1:* 4-11-C20. *Version 2:* 4-11-C20; 11-A-C20. *Version 3:* 11-O-A. *Version 4:* 11-O-A.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ. *Version 3:* Signal School, Ft. Monmouth, NJ. *Version 4:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 12 weeks (587 hours). *Version 2:* 8–12 weeks (341–551 hours). *Version 3:* 9–10 weeks (350–366 hours). *Version 4:* 19 weeks (780 hours).

Exhibit Dates: *Version 1:* 6/79–Present. *Version 2:* 3/60–5/79. *Version 3:* 5/54–2/60. *Version 4:* 8/53–4/54.

Objectives: To teach newly commissioned officers basic Signal Corps procedures.

Instruction: *All Versions:* Lectures and practical exercises in basic Signal Corps procedures, including unit and team tactics and battle procedures; atomic, chemical, biological, radiological, and mine warfare; intelligence procedures; map and aerial photograph reading; supply management; motor vehicle maintenance; combined arms and weapons; communications center procedures; and radio and wire communications principles and tactics. *Version 4:* Includes personnel management, military photography, and Signal Corps officer duties.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, credit in radio, wire communications, and telegraph systems on the basis of institutional examination (6/74). *Version 3:* In the upper-division baccalaureate category, credit in radio and wire communications on the basis of institutional examination (12/68). *Version 4:* In the upper-division baccalaureate category, 2 semester hours in business organization and management, and 3 in radio and electricity (12/68).

AR-1404-0007

Data Communications Switching Center Specialist
(AUTODIN Switching Center Traffic Operations)

Course Number: 580-72G10; 580-72G20.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 9–11 weeks (253–393 hours).

Exhibit Dates: 5/70–Present.

Objectives: To train enlisted personnel in automatic digital message switching center traffic operations, and as data communication switching center specialists.

Instruction: Lectures and practical exercises on AUTODIN switching center traffic operations, including introduction to communications, teletypewriter keyboard operations, COMSEC accounting, COMSEC equipment, introduction to AUTODIN, AUTODIN tributary and peripheral equipment operations, message handling procedures, and basic communication principles.

Credit Recommendation: In the vocational certificate category, 2 semester hours in typewriting proficiency on the basis of institutional evaluation (4/77).

Related Occupation Codes: 72G; 09B.

AR-1404-0008

Radio Operator Noncommissioned Officer (NCO) Supervisor Candidate

Course Number: 201-05B42-I.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 26 weeks (1772 hours).

Exhibit Dates: 5/71–Present.

Objectives: To qualify enlisted personnel as noncommissioned officers and supervisors in a special forces unit. This includes a working knowledge of doctrine, tactics, techniques and field training of special forces units and operation of a field radio.

Instruction: Lectures and practical exercises in field radio operation and leadership skills of special forces noncommissioned officers and supervisors. Course includes military skills, Morse code (at 15 words per minute), and field communications procedures. Some attention is given to communication system general familiarization.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/74).

Related Occupation Codes: 05B.

AR-1404-0009

Radio Teletype Operator
(Radio Teletypewriter Operator)
(Radio Teletype Operation)

Course Number: 201-05C10-CELT; 201-05C10; 201-05C20; 11-R-053.1; 11-E-48.

Location: Southeastern Signal School, Ft. Gordon, GA; Signal School, Ft. Gordon, GA.

Length: 10–15 weeks (72–609 hours).

Exhibit Dates: 11/55–Present.

Objectives: To train enlisted personnel to install, operate, and maintain field radio teletypewriter sets and related equipment.

Instruction: Lectures and practical exercises in teletypewriter sets installation, operation, and maintenance, including keyboard operation proficiency, Morse code, radio telegraph procedures, and equipment familiarization. After 2/79 morse code has been deleted.

Credit Recommendation: In the vocational certificate category, 1 semester hour in typing (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing (6/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (6/74).

Related Occupation Codes: 05C.

AR-1404-0010

High Speed Radio Operation

Course Number: 11-E-15.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 23 weeks (850 hours).

Exhibit Dates: 11/55–12/68.

Objectives: To train enlisted personnel to operate high-speed radios.

Instruction: Lectures and practical exercises in the operation of radio communications equipment, receipt of international Morse code, and transmission of code groups, including radio procedure, introduction to communications, international Morse code, typing, teletypewriter procedure and operation, tactical traffic, field radio sets, and field radio operation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in typewriting, telecommunications, basic radio, or teletype operation (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting, telecommunications, basic radio, or teletype operation (7/74); in the upper-division baccalaureate category, credit in typewriting, telecommunications, basic radio, or teletype operation on the basis of institutional evaluation (12/68).

AR-1404-0011

International Morse Code

Course Number: 231-ASI A4.

Location: Signal School, Ft. Gordon, GA.

Length: 4 weeks (165 hours).

Exhibit Dates: 11/78–Present.

Objectives: Provides student with knowledge and capability to send and receive international Morse Code at a minimum speed of 15 words per minute.

Instruction: Course includes practice in sending and receiving international Morse Code, military lettering, phonetic alphabet, and radio telegraph procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in Morse Code radio operator (8/79).

Related Occupation Codes: 05B; 05C.

AR-1404-0012

1. WAC Officer Basic/WAC Officer Candidate
2. WAC Officer Basic/WAC Officer Candidate
   (WAC Officer Basic)

Course Number: *All Versions:* 7-35-C20; 7-35-F1. *Version 2:* 35-O-1.

Location: Women's Army Corps School, Ft. McClellan, AL.

Length: *Version 1:* 18 weeks (625 hours). *Version 2:* 18–20 weeks (672–740 hours).

Exhibit Dates: *Version 1:* 11/70–Present. *Version 2:* 1/55–10/70.

Objectives: To prepare newly commissioned officers for their first duty assignments and to prepare selected personnel to be commissioned Second Lieutenants in the Reserve component of the U.S. Army.

Instruction: Lectures and practical exercises covering a wide range of subjects including Army management, military leadership, and effective oral and written expression.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in communications (7/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in communications (7/74); in the upper-division baccalaureate category, 2 semester hours in business organization and management (12/68).

AR-1404-0013

COMMUNICATIONS CENTER OPERATION

Course Number: *All Versions:* 4C-209A; 4C-0221; 4C-25B; 4C-26B; 4C-721A. *Version 2:* 11-B-0221; 11-B-0224; 11-O-22.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 4 weeks (107 -117 hours). *Version 2:* 5 weeks (167-183 hours). *Version 3:* 7-8 weeks (245-285 hours).

Exhibit Dates: *Version 1:* 9/76-Present. *Version 2:* 10/70-8/76. *Version 3:* 6/55-9/70.

Objectives: To provide commissioned and warrant officers with a working knowledge of tactical and fixed telecommunications center procedures.

Instruction: Course covers logistics and personnel, electronic warfare, tactical communications centers, automatic data processing, and fixed communications centers.

Credit Recommendation: *Version 1:* Credit is not recommended because of the military-specific nature of the course (4/77). *Version 2:* In the vocational certificate category, 2 semester hours as an elective in communications (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in communications (8/74). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in communications center management (12/68).

AR-1404-0014

SIGNAL COMPANY GRADE OFFICER REFRESHER

Course Number: 11-A-C7.

Location: Signal School, Ft. Monmouth, NJ.

Length: 4 weeks (130 hours).

Exhibit Dates: 2/57-12/68.

Objectives: To provide refersher training in the duties and responsibilities of a signal corps officer at the company level.

Instruction: Conferences and practical exercises in signal supply and maintenance, wire and radio communication equipment, communication center operations, and signal corps organization and systems.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-1404-0015

TELECOMMUNICATIONS CENTER OPERATOR (Telecommunications Center Specialist)

Course Number: *Version 1:* 580-72E10; 580-72E10-CELT. *Version 2:* 580-72E20.

Location: Signal School, Ft. Gordon, GA.

Length: 10-16 weeks (393-653 hours).

Exhibit Dates: *Version 1:* 1/79-Present. *Version 2:* 1/75-12/78.

Objectives: To provide training in the basic operation of communications equipment.

Instruction: *Version 1:* Essentially Army 'basic training' acquainting the student with basic skills required to perform as a soldier in a technical environment. Includes 68 hours of typing instruction and 46 hours of teletypewriter operation. *Version 2:* Lectures and practical exercises in message processing, teletype operation, and installation and operation of specific military communications networks. teletype operation, and installation and operation of specific military communications networks.

Credit Recommendation: In the vocational certificate category, 2 semester hours in keypunch and teletype operation (8/79).

Related Occupation Codes: 72E.

AR-1404-0016

MORSE INTERCEPTOR

Course Number: 231-05H20.

Location: Security Agency School, Ft. Devens, MA.

Length: 9 weeks (315 hours).

Exhibit Dates: 9/64-3/77.

Objectives: To train enlisted personnel to intercept and record manual Morse signals.

Instruction: Lectures and practical exercises in international Morse code reception and recording; operation and maintenance of radio receivers and telegrapher type writer; and employment of intercept procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in telegraphy (7/74).

Related Occupation Codes: 05H.

AR-1404-0017

VOICE RADIO OPERATOR

Course Number: 201-05E20.

Location: Signal School, Ft. Gordon, GA.

Length: 5 weeks (164 hours).

Exhibit Dates: 2/76-Present.

Objectives: To provide students with the knowledge to install and operate AM, FM, and SSB radiotelephone sets in voice radio networks.

Instruction: Instruction in the procedures used to set up, transmit, and receive voice communications on a radio network.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/77).

Related Occupation Codes: 09B; 05E.

AR-1404-0018

VHF/UHF MULTICHANNEL INTERCEPT (Electronic Warfare (EW) Cryptologic Interceptor—Very High Frequency/Ultra High Frequency (UHF/VHF Intercept Operations)

Course Number: 231-F10.

Location: Intelligence School, Ft. Devens, MA.

Length: 3 weeks (86 hours).

Exhibit Dates: 12/76-Present.

Objectives: To train personnel in the operation of VHF/UHF intercept equipment.

Instruction: Instruction is devoted solely to operation of radio intercept equipment.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (9/77).

AR-1404-0019

FIXED TELECOMMUNICATIONS SYSTEMS ADVANCED

Course Number: 4C-OA26.

Location: Signal School, Ft. Gordon, GA.

Length: 14 weeks (482 hours).

Exhibit Dates: 6/77-Present.

Objectives: To prepare Signal Corp officers for aspects of planning, installation and operation of non-tactical communications systems and facilities.

Instruction: The course covers general knowlege of radio fundamentals, radio principles, TV principles, RF transmission lines, factors influencing ground wave propogation, sky wave propogation, antenna effects, and Fresnel zone effects. Procedure for frequency planning, telecommunications center operation and organization and knowledge of specific telecommunications systems (autodin) or cable TV are also covered.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in telecommunications systems electives (8/79).

AR-1404-0020

TELECOMMUNICATIONS CENTER OPERATOR BY CORRESPONDENCE

Course Number: J11.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80-Present.

Objectives: To provide the knowledge and basic skills to operate digital subscriber terminal equipment.

Instruction: Course gives instruction in the operation and care of digital terminal equipment. Student will be able to prepare Autodin messages and operate in a tactical environment; Autodin is covered as is punched card operation. Various data communications terminals are described and the operation and maintenance is provided for.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic data communication systems (6/79).

AR-1404-0021

TACTICAL COMMUNICATIONS CHIEF BY CORRESPONDENCE

Course Number: J05.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80-Present.

Objectives: To develop technical depth and system orientation in the installation, operation and management of tactical communications systems and networks.

Instruction: Course covers basic communications theory and operation, electromechanical studies to include tactical radio teletypewriter equipment, operation, and maintenance, and military management practices including effective management of resources and techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in basic communications systems, 2 in electromechanics (technical) (6/79).

Related Occupation Codes: 31V.

AR-1404-0022

TACTICAL WIRE OPERATIONS SPECIALIST BY CORRESPONDENCE

Course Number: J10.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80-Present.

Objectives: To provide the knowledge necessary to install, maintain and recover field wire lines. Course also provides teaching of installation and operation of tactical switchboards and radio systems.

Instruction: Course provides instruction in the installation, maintenance and recovery of field wire and field cable line. Included is instruction in the installation, operation and maintenance of telephone local battery switchboards, and tactical FM radio sets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics (6/79).

Related Occupation Codes: 36K.

AR-1404-0023

Cryptographic Technician by Correspondence

Course Number: 118.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide a working knowledge of COMSEC accounting and management levels as well as the procedural principles in the operation of both tactical and fixed station telecommunication equipment and basic automatic data processing technique.

Instruction: Course provides instruction in basic communications at the operation and management levels and in basic data processing principles and operational techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic communication, 2 in basic data processing techniques (6/79).

AR-1404-0024

Telecommunications Technician by Correspondence

Course Number: 186.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1011LK Present.

Objectives: To provide a working knowledge of COMSEC accounting and management levels as well as the procedural principles in the operation of both tactical and fixed station telecommunication equipment and basic automatic data processing technique.

Instruction: Course provides instruction in basic communications at the operation and management levels and in basic data processing principles and operational techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic communication, 2 in basic data processing techniques (6/79).

AR-1404-0025

Radio Teletypewriter Operator by Correspondence

Course Number: J48.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide basic skills and knowledge necessary for operation of single-channel radio and radio teletypewriter systems.

Instruction: This correspondence course gives instruction in the hook-up, brief checkout, and operation procedures of numerous single channel radio systems and radio teletypewriter systems. The operator is expected to perform basic maintenance such as tightening nuts and screws, inspecting for loose knobs, replacing fuses and frayed cables. The student should also be able to perform such basic preventive type maintenance as cleaning and basic type operator adjustments.

Credit Recommendation: Credit is not recommended due to the limited scope and level of the course (5/79).

Related Occupation Codes: 05C.

AR-1404-0026

Communications Center Officer by Correspondence

Course Number: J18.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide commissioned and warrant officers with a working knowledge in tactical and fixed telecommunications center procedures.

Instruction: Course provides instruction in tactical and fixed telecommunications center procedures.

Credit Recommendation: Credit is not recommended because of the limited nature of the course (6/79).

Related Occupation Codes: 0221.

AR-1404-0027

Pershing Communication Specialist

Course Number: 101-31D20.

Location: Field Artillery School, Fort Sill, OK.

Length: 10 weeks (319 hours).

Exhibit Dates: 11/74–10/79.

Objectives: To train qualified students to select location, install, tune, operate and perform general maintenance on a radio telephone terminal associated with a Pershing missile communication system.

Instruction: The course covers the principles of operation and signal flow for a portable radio telephone terminal associated with a Pershing missile communication system including the telephone typewriter, switchboard, portable motor generator, power amplifier, antenna set-up and other related equipment. The student learns to set-up, operate, tune, and perform general maintenance of the system. The course also includes map reading, topographic analysis and map coordinates and measurements for the purpose of selecting suitable installation sites.

Credit Recommendation: In the vocational certificate category, Credit is recommended on the basis of institutional evaluation (1/80).

Related Occupation Codes: 31D.

AR-1405-0001

Ordnance Officer Orientation

Course Number: 4-9-C21.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 4 weeks (139 hours).

Exhibit Dates: 7/70–12/73.

Objectives: To provide commissioned officers assigned to the Ordnance Corps with initial branch training and orientation in ordnance familiarization and organizational supply and maintenance.

Instruction: Lectures and practical exercises in supply management and maintenance, and military procedures and publications relating to Army ordnance.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in supply management (12/68).

AR-1405-0002

Quartermaster Supply Procedures

Course Number: 10-G-F10.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (144 hours).

Exhibit Dates: 5/61–12/68.

Objectives: To provide commissioned officers and civilian personnel with a working knowledge of quartermaster supply, stock control, and related procedures.

Instruction: Lectures and practical exercises in installation supply procedures, supply and distribution procedures, and the Army command management system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (2/74); in the upper-division baccalaureate category, 2 semester hours in supply management (12/68).

AR-1405-0003

Storage Officer

Course Number: 8B-4445.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (146 hours).

Exhibit Dates: 10/71–Present.

Objectives: To provide commissioned officers with a working knowledge of storage facility supervision and administration.

Instruction: Lectures in the organization and operation of Army supply systems, storage procedures, stock locator systems, depot operations, special warehouse layout and management problems, receiving and shipping, equipment handling, and special materials and commodities handling.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in warehousing (2/74); in the upper-division baccalaureate category, 2 semester hours in warehousing (2/74).

AR-1405-0004

Noncommissioned Officers (NCO) Logistics Program

Course Number: 551-F5.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 9 weeks (289 hours). *Version 2:* 8–9 weeks (282–317 hours).

Exhibit Dates: *Version 1:* 10/78–Present. *Version 2:* 3/67–9/78.

Objectives: To provide enlisted personnel with the necessary knowledge and skills to conduct field logistic operations.

Instruction: Lectures and practical exercises in management procedures, financial management, storage, procurement and property disposal, transportation, maintenance, and inventory and financial management.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in supply management (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (2/74); in the upper-division baccalaureate category, 4 semester hours in supply management (12/68).

AR-1405-0005

Financial Management—Inventory Accounting and Army Stock Fund Operations

Course Number: 14-I-F4; 14-O-19.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (110 hours).

Exhibit Dates: 6/55-12/68.

Objectives: To provide warrant officers, commissioned officers, and civilian personnel with a basic knowledge of financial inventory accounting and stock fund management.

Instruction: Lectures in financial inventory accounting, inventory control, balance sheet examination, stock fund operations, budgeting, general accounting review, and financial management planning.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in financial management (12/68).

AR-1405-0006

Property Disposal Specialist

Course Number: 822-F12.

Location: Quartermaster School, Ft. Lee, VA.

Length: 3 weeks (91 hours).

Exhibit Dates: 6/71-Present.

Objectives: To train enlisted personnel to operate a property disposal holding activity and collecting point.

Instruction: Lectures and practical exercises in disposal responsibilities, processing property for disposal, accounting procedures for a disposal holding activity, and disposition of property and removal action.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).

Related Occupation Codes: 76V; 76Z.

AR-1405-0007

Installation/Direct Support Supply Officer

Course Number: 10-I-F19.

Location: Quartermaster School, Ft. Lee, VA.

Length: 6 weeks (222 hours).

Exhibit Dates: 12/63-12/68.

Objectives: To train commissioned officers, warrant officers, and civilian personnel in the procedures involved in supplying equipment and repair parts to using organizations.

Instruction: Lectures and practical exercises in organization, supply, storage, and procurement procedures; financial management; and basic management skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (2/74); in the upper-division baccalaureate category, 3 semester hours in supply management (12/68).

Related Occupation Codes: 761A; 762A.

AR-1405-0008

1. Medical Supply and Services
2. Medical Supply Officer

Course Number: *Version 1:* 8B-4490. *Version 2:* 8-O-44.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 10 weeks (369 hours). *Version 2 :* 10 weeks (350 hours).

Exhibit Dates: *Version 1:* 12/67-12/68. *Version 2:* 3/55-11/67.

Objectives: To train officers to perform and supervise item and financial accounting for medical supplies and equipment, and to direct and supervise the requisitioning, receipt, storage, and issue of those supplies in Army hospitals and field medical units.

Instruction: *All Versions:* Lectures and practical exercises in personnel and financial management methods. *Version 1:* Organization of supply units, accounting, medical materiel storage and handling, maintenance of medical technical equipment, and medical equipment planning. *Version 2:* Work simplification techniques, principles of human relations, and organization and function of supply and logistical agencies.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in accounting, 3 in occupational safety, 1 in finance, 2 in business management (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in accounting, 3 in occupational safety, 1 in finance, 2 in business management (2/74); in the upper-division baccalaureate category, 3 semester hours in accounting, 3 in occupational safety, 1 in finance, 2 in business management (2/74). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in supply management (12/68).

AR-1405-0009

Associate Quartermaster Officer Advanced

Course Number: *Version 1:* 10-A-CF. *Version 2:* 10-O-4.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 15 weeks (525-548 hours). *Version 2 :* 15 weeks (529-532 hours).

Exhibit Dates: *Version 1:* 12/57-12/68. *Version 2:* 10/54-11/57.

Objectives: To train commissioned officers as field grade Quartermaster Corps officers.

Instruction: *All Versions:* Lectures and practical exercises in duties of field grade Quartermaster Corps officers, including supply and distribution systems, command management, and procurement; instructor training; map and aerial photograph reading; tactical employment of arms; atomic, chemical, biological, and radiological warfare; signal communications and electronic warfare; stock control and depot operations; petroleum logistics; airborne subjects; and maintenance administration. *Version 2:* Includes intelligence operations, personnel, and logistics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in materials management, 3 in business organization and management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in materials management, 3 in business organization and management (6/74); in the upper-division baccalaureate category, 4 semester hours in supply management, 2 in business organization and management (12/68). *Version 2:* In the vocational certificate category, 3 semester hours in materials management, 3 in business organization and management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in materials management, 3 in business organization and management (6/74); in the upper-division baccalaureate category, 4 semester hours in supply management, 4 in business organization and management (12/68).

AR-1405-0010

DSU/GSU Mechanized Stock Control

Course Number: 551-F4.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (140 hours).

Exhibit Dates: 7/67-Present.

Objectives: To train enlisted personnel in mechanized stock accounting using the NCR 500 magnetic ledger type computer system.

Instruction: Lectures and practical exercises in mechanized stock accounting using the NCR 500 magnetic ledger computer system. Course includes mechanized record systems, review of supply procedures, familiarization with machine operations, data preparation, and program loading.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

Related Occupation Codes: 76P.

AR-1405-0011

Signal Supply and Parts Specialist (Signal Supply)

Course Number: 11-R-765.1; 11-E-29.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 5-7 weeks (175-247 hours).

Exhibit Dates: 5/56-12/68.

Objectives: To train enlisted personnel to receive, store, issue, ship, identify, and salvage Signal Corps supplies and equipment.

Instruction: Lectures and practical exercises in the receipt, storage, issue, shipping, identification, and salvage of Signal Corps supplies and equipment, including communications procedures, item identification, cataloging and nomenclature, records and stock control, layout and numbering systems, and financial inventory accounting and stock fund techniques.

Credit Recommendation: In the vocational certificate category, 2 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in materials management (6/74).

AR-1405-0012

Signal Parts Supply

Course Number: 11-E-41.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 5 weeks (175 hours).

Exhibit Dates: 5/56-12/68.

Objectives: To train enlisted personnel to provide technical advice and assistance on the use, availability, interchangeability, and identification of signal parts, and to maintain stock records pertaining to receipt, storage, and issue of parts for signal equipment.

Instruction: Lectures and practical exercises in the use, availability, interchangeability, and identification of signal parts and maintenance of records for the supply of signal parts. Course includes introduction to communications, signal parts identification, stock control and storage, and signal maintenance and salvage.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

AR-1405-0013

Ordnance Parts Supply

Course Number: 9-R-773.1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 6 weeks (210 hours).

Exhibit Dates: 4/57-12/68.

Objectives: To train enlisted personnel to use, identify, classify, and store ordnance repair parts and supplies.

Instruction: Lectures and practical exercises in the management of ordnance parts and supplies. Course includes reference publications, supply accounting procedures, survey of ordnance material, parts identification, armament and automotive parts, and storage methods.

Credit Recommendation: In the vocational certificate category, 1 semester hour in parts management (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in parts management (6/74).

AR-1405-0014

Defense Property Disposal Operations
Property Disposal Operations
(Basic Property Disposal Operations)

Course Number: 8G-F1; 822-F9; 10-K-F9; 10-L-F9.

Location: Logistics Management Center, Ft. Lee, VA; On-Site and Off-Campus Locations, Continental U.S.; Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (140-156 hours).

Exhibit Dates: 1/61-Present.

Objectives: To train enlisted personnel and commissioned officers to perform property disposal activities.

Instruction: Lectures and practical exercises in property disposal activities, including disposal responsibilities and processing property for disposal, property disposition, presale action at holding offices and sales offices, sale and contracting procedures, and management controls and operations.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in property disposal management (12/75).

Related Occupation Codes: 411A; 621A.

AR-1405-0015

Supply Management Career Intern Training Program
(DARCOM Supply Management Career Intern Training)

Course Number: None.

Location: DARCOM Intern Training Center, Red River Depot, Texarkana, TX.

Length: 44 weeks (1664 hours).

Exhibit Dates: 7/76-Present.

Objectives: To train graduates to perform effectively at journeyman level in a variety of Army supply activity management positions and to prepare for progression into mid-level and upper-level positions in supply management.

Instruction: Lectures, conferences, practical exercises, on-the-job training, field trips, simulations, guest speakers, cases, and research covering the following general areas: general management, supply procedures, inventory management, supply distribution and storage management, preservation and packaging, and logistics related functions.

Credit Recommendation: In the upper-division baccalaureate category, 5 semester hours in general management, 2 in supply procedures, 5 in inventory management, 6 in supply distribution and storage management, 3 in logistics related functions (12/76).

AR-1405-0016

Missile Repair Parts Specialist, Skill Development Base

Course Number: 551-76R20-I.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (427 hours).

Exhibit Dates: 3/69-Present.

Objectives: To train enlisted personnel who are trained as missile repair parts specialists to perform as supervisors.

Instruction: Lectures and practical exercises in the duties of missile repair parts specialist supervisors, including leadership, exercise of command, inspections, map reading, internal defense/development, field training, DSU and ASDA accounting procedures, automatic data processing systems, storage operations, and missile repair parts supply.

Credit Recommendation: Credit is not recommended because of the military nature of the course (3/74).

Related Occupation Codes: 76R.

AR-1405-0017

Communications-Electronics Repair Parts Specialist

Course Number: 551-76U20.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (123 hours). *Version 2:* 4-5 weeks (148-161 hours).

Exhibit Dates: *Version 1:* 8/74-11/77. *Version 2:* 9/67-7/74.

Objectives: To train enlisted personnel who are qualified as stock control and accounting specialists to perform as communications and electronics repair parts specialists.

Instruction: Lectures and practical exercises on the receipt, storage, inspection, identification, preservation and shipment of repair parts, including repair parts classification and disposal, component identification, end-item identification, parts identification, repair parts records, receiving operations, stock locator, storage and handling procedures, inventory procedures, shipping procedures, and general repair parts procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in repair parts management techniques (6/75). *Version 2:* In the vocational certificate category, 1 semester hour in inventory supervision (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in inventory supervision (6/74).

Related Occupation Codes: 76P; 76U.

AR-1405-0018

Aircraft Repair Parts Specialist

Course Number: 551-76T20.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (127 hours). *Version 2:* 4-5 weeks (148-172 hours).

Exhibit Dates: *Version 1:* 8/74-11/77. *Version 2:* 9/67-7/74.

Objectives: To train stock control and accounting specialists to receive, store, inspect, identify, preserve, and ship aircraft repair parts.

Instruction: Lectures and practical exercises in the receipt, storage, inspection, identification, preservation, and shipment of aircraft repair parts, including use of reference data and inventory records, item identification, examination, and condition classification; establishment and review of stock levels; transaction processing and physical inventory.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in repair parts management techniques (6/75). *Version 2:* In the vocational certificate category, 2 semester hours in parts management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in parts management (6/74).

Related Occupation Codes: 76P; 76T.

AR-1405-0019

Communications-Electronics Repair Parts Specialist, Skill Development Base

Course Number: 551-76U20-I.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (427 hours).

Exhibit Dates: 5/69-Present.

Objectives: To train enlisted personnel to serve as supervisory technicians in the field of communications and electronics repair parts.

Instruction: Lectures and practical exercises in the field of communications and electronics repair parts. Course includes leadership and administration, instructor training, map reading, supply accounting procedures, the use of automatic data processing, storage operations, and inventory and control of communications and electronics repair parts.

Credit Recommendation: In the vocational certificate category, 2 semester hours in leadership, 3 in parts management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in leadership, 3 in parts management (6/74).

Related Occupation Codes: 76U.

AR-1405-0020

Signal Supply Officer
(Signal Supply Basic)

Course Number: 11-A-4400; 11-B-4400; 11-O-7.

Location: Signal School, Ft. Monmouth, NJ.

Length: 8 weeks (280-320 hours).

Exhibit Dates: 9/54-12/68.

Objectives: To train commissioned and warrant officers in signal supply.

Instruction: Lectures and practical exercises in the direction and supervision of requisition, receipt, storage and issue of signal supplies and equipment at organizational and direct-support levels in both CONUS and overseas, including fundamentals of supply operation, direct supply support, theater and CONUS signal supply systems, unit and organization supply, station supply, depot organization and management analysis, Army management, and depot maintenance procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in materials management (6/74); in the upper-division baccalaureate category, 2 semester hours in business organization and management (12/68).

Related Occupation Codes: 761A; 762A.

AR-1405-0021

Installation Supply Procedures

Course Number: 551-F1; 10-S-F27.

Location: Quartermaster School, Ft. Lee, VA.

Length: 3 weeks (107-108 hours).

Exhibit Dates: 3/65–Present.

Objectives: To familiarize enlisted or civilian personnel who have had previous experience in supply procedures with the operation of consolidated supply activities.

Instruction: Lectures and practical exercises in installation supply procedures, including basic supply procedures, issue and turn-in procedures, initial processing of documents, stock accounting phase I and the economic inventory policy system, types of property, authorization media, procurement and sources of supply, storage procedures, automatic data processing, financial management, and stock fund concepts.

Credit Recommendation: In the vocational certificate category, 1 semester hour in materials management (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in materials management (6/74).

AR-1405-0022

Ground Control Radar Repair, Specialist Candidate
(Ground Control Radar Repair, Skill Development Base)

Course Number: 104-26D20-I.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12 weeks (584–624 hours).

Exhibit Dates: 11/68–Present.

Objectives: To qualify enlisted personnel with prior training as ground control radar repairmen specialists.

Instruction: Lectures and practical exercises on ground control radar repair, including leadership and supervisory responsibilities, small unit administration; patrolling and reconnaissance; techniques of military instruction and military justice; maintenance and supply management; TAERS; vehicle maintenance, shop organization and administration; shop layout and construction; shop operations; installation requirements; site selection; equipment serviceability criteria; and direct and general support maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in materials management (6/74).

Related Occupation Codes: 26D; 26W.

AR-1405-0023

Defense International Logistics Management

Course Number: 8A-F12.

Location: Logistics Management Center, Ft. Lee, VA.

Length: *Version 1:* 2 weeks (75 hours). *Version 2:* 2-3 weeks (74-111 hours).

Exhibit Dates: *Version 1:* 9/75–Present. *Version 2:* 9/71–8/75.

Objectives: To familiarize Department of Defense personnel with the administration of security assistance programs.

Instruction: *Version 1:* Lecture-conferences, case discussions and analyses, practical exercises, and workshops. Topics include an introduction to Foreign Assistance Programs and Organizations, the Military Assistance Grant Aid program, and the Foreign Military Sales program. *Version 2:* Lectures and practical exercises in defense international logistics management, including problem solving and management techniques, resource and financial management in international logistics, introduction to foreign assistance programs and organizations, military assistance grant aid programs, foreign military sales programs, cooperative logistics programs, international logistics, and material management.

Credit Recommendation: *Version 1:* No credit because of the military nature of the course (12/75). *Version 2:* In the vocational certificate category, 3 semester hours in logistics management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in logistics management (6/74); in the upper-division baccalaureate category, 3 semester hours in logistics management (6/74).

AR-1405-0024

Medical Supply Specialist
(Medical Supply Procedures)
(Medical Material Procedures)

Course Number: 551-56J10; 551-76J20; 551-767.1; 8-E-44.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 5-7 weeks (182-242 hours). *Version 2:* 4 weeks (140-143 hours).

Exhibit Dates: *Version 1:* 12/76–Present. *Version 2:* 3/56–11/76.

Objectives: To train enlisted personnel in medical supply procedures.

Instruction: Lectures in publications, property control and stock-accounting procedures, supply and services procedures at the installation level, and a survey of management methods.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in stock control accounting and inventory management (6/77). *Version 2:* In the vocational certificate category, 1 semester hour in materials management (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in materials management (6/74).

Related Occupation Codes: 76A; 76J, 098.

AR-1405-0025

General Warehousing

Course Number: 10-R-551.1; 10-E-43.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (280 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train enlisted personnel as general warehousemen.

Instruction: Lectures and practical exercises on the receipt, storage, issue, and transportation of supplies. Topics include basic mathemathics; Army supply system; packaging and packing; depot, installations, organizations, and unit supply systems; storage operations; protection of stored supplies; storage and materials handling problems, equipment and equipment operation; advanced operations; and maintenance service.

Credit Recommendation: In the vocational certificate category, 2 semester hours in warehousing (6/74).

AR-1405-0026

Ordnance Supply

Course Number: 551-R-763.1; 9-R-763.1; 9-E-7.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 5-8 weeks (192-294 hours).

Exhibit Dates: 6/56–12/68.

Objectives: To train enlisted personnel in stock control, storage, and inventory as applied to ordnance supplies and equipment.

Instruction: Lectures in supply economy, publications, repair parts transactions, allowance lists, field stock control, requisitioning and issue, turn-in, receiving and storage, preservation and safety, and supply organization.

Credit Recommendation: In the vocational certificate category, 2 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in materials management (6/74).

AR-1405-0027

1. Quartermaster Supply
2. Quartermaster Storage

Course Number: *Version 1:* 10-R-764.1 10-R-764.10; 10-E-24. *Version 2:* 10-E-24.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (140 hours). *Version 2:* 8 weeks (277 hours).

Exhibit Dates: *Version 1:* 3/56–12/68. *Version 2:* 8/54–2/56.

Objectives: To qualify enlisted personnel with prior training as supply clerks to perform as quartermaster supply specialists.

Instruction: Lectures and practical exercises on the receipt, storage, issue and stock-control procedures of quartermaster supplies and material, including installation supply; stock control and requisitioning; receipt, shipment, and inventory procedures; packaging; packaging problems and trends of development; classification and disposal; procedures and problems in classifying QM property; QM storage operations; stock control; and commissary operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in materials management (6/74). *Version 2:* In the vocational certificate category, 3 semester hours in materials handling (7/74).

AR-1405-0028

Equipment Storage Specialist

Course Number: 551-76V20.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 6 weeks (202 hours). *Version 2:* 8 weeks (277-279 hours).

Exhibit Dates: *Version 1:* 7/74–Present. *Version 2:* 12/67–6/74.

Objectives: To train personnel as equipment storage and supplies handling specialists.

Instruction: Lectures and practical exercises on the federal supply system, storage operations, packaging, packing, and materials-handling equipment, including basic mathematics; flow and distribution of supplies; duties and assignments; storage operations; protection procedures for general supplies; receiving, shipping, and inspection procedures; palletization of supplies and equipment; materials-handling equipment; and basic and advanced operation of specific equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in warehousing operations (6/75). *Version 2:* In the vocational certificate category, 2 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in materials management (6/74).

Related Occupation Codes: 76V.

AR-1405-0029

1. Unit and Organization Supply Noncommissioned Officer (NCO) (General Supply Supervision)
2. General Supply Supervision

Course Number: *Version 1:* 552-F1. *Version 2:* 10-R-F25. *All Versions:* 10-R-768.6.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 5 weeks (175–193 hours). *Version 2:* 6 weeks (210 hours).

Exhibit Dates: *Version 1:* 10/62–Present. *Version 2:* 10/58–9/62.

Objectives: To qualify enlisted general supply specialists as general supply supervisors.

Instruction: Lectures and practical exercises in general supply duties, operations and logistics, including Army supply system, publications pertinent to supply, unit and organization supply, installation stock control and accounting procedures, depot storage operations, military packaging, supervision and management of personnel, supply and service operations in TOPNS, logistical support and TOPNS, and maintenance and inspection.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in materials management (6/74). *All Versions:* Credit is not recommended because of the technical nature of the course (6/74).

AR-1405-0030

Chemical Supply

Course Number: 3-E-6.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 8 weeks (352 hours).

Exhibit Dates: 5/54–12/68.

Objectives: To train enlisted personnel to store and handle chemical supplies and equipment, including chemical munitions.

Instruction: Lectures and practical exercises in the handling and storage of chemical supplies and munitions. Course includes technical aspects of atomic, biological, and chemical warfare; chemical munitions protection, materials handling, and organization and procedures for inventory control and processing.

Credit Recommendation: In the vocational certificate category, 1 semester hour in materials management (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in materials management (6/74).

AR-1405-0031

Ordnance General Supply Officer

Course Number: 9-B-4530.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 5–6 weeks (186–212 hours).

Exhibit Dates: 3/58–12/68.

Objectives: To train commissioned and warrant officers to organize, manage, and supervise ordnance supply activities.

Instruction: Lectures in the duties of ordnance general supply officers. Course includes instruction in supply accounting, warehousing and storage, special aspects of supply, and supply operations in wartime conditions.

Credit Recommendation: In the vocational certificate category, 3 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in materials management (6/74); in the upper-division baccalaureate category, 3 semester hours in supply management (12/68).

Related Occupation Codes: 761A; 762A.

AR-1405-0032

Procurement Sergeant

Course Number: 551-76N40.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 5 weeks (175 hours). *Version 2:* 4 weeks (141 hours).

Exhibit Dates: *Version 1:* 9/69–Present. *Version 2:* 9/67–8/69.

Objectives: To train enlisted personnel in procurement and procurement administration.

Instruction: Lectures in procurement regulations, contracts, specifications, ethics and standards, small business and labor surplus policies, qualifying contractors, advertisement and negotiation, finance, taxes, assurance, performance evaluation, termination, and disputes and appeals.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in procurement (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in procurement (6/74). *Version 2:* In the vocational certificate category, 2 semseter hours in procurement (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in procurement (6/74); in the upper-division baccalaureate category, 2 semester hours in procurement (12/68).

Related Occupation Codes: 73C; 76P; 76N; 76Z.

AR-1405-0033

1. Transportation Supply and Parts Specialist
2. Transportation Supply (Transportation Supply Specialist)

Course Number: *All Versions:* 55-R-766.1. *Version 1:* 551-76H20. *Version 2:* 55-E-60.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 6–7 weeks (210–246 hours). *Version 2:* 4–5 weeks (140–175 hours).

Exhibit Dates: *Version 1:* 9/59–12/68. *Version 2:* 7/56–8/59.

Objectives: To train selected enlisted personnel to receive and store transportation supplies.

Instruction: *All Versions:* Lectures and practical exercises in general supply procedures and operations. *Version 1:* Course includes supply subjects, transportation technical training and counterinsurgency. *Version 2:* Lectures and practical exercises in the receipt and storage of transportation supplies, exclusive of spare parts. Course includes military science, aviation supply, and railway supply.

Credit Recommendation: Credit is not recommended because of the limited technicl nature of the course (7/74).

Related Occupation Codes: 76H.

AR-1405-0034

Missile Repair Parts Specialist

Course Number: 551-76R20.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4–5 weeks (129–168 hours).

Exhibit Dates: 9/67–11/77.

Objectives: To train stock control and accounting specialists to perform as missile repair parts specialists.

Instruction: Lectures, demonstrations, and practical exercises in receipt, storage, inspection, identification, preservation, and shipment of missile repair parts, including review of flow of repair parts; missile system and item identification; missile component identification; repair parts procedures; missile system float, shop stock, and cannibalization; introduction to storage operations; equipment planning; receiving operations; and inventory and shipping procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in repair parts management techniques (6/75).

Related Occupation Codes: 76P; 76R.

AR-1405-0035

Automotive Repair Parts Specialist

Course Number: 551-76S20.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (123 hours). *Version 2:* 4–5 weeks (148–168 hours).

Exhibit Dates: *Version 1:* 8/74–11/77. *Version 2:* 9/67–7/74.

Objectives: To train enlisted personnel to receive, store, inspect, identify, preserve, and ship automotive repair parts.

Instruction: Lectures, demonstrations, and practical exercises in the receipt, storage, inspection, identification, and shipment of automotive repair parts. Course includes parts identification systems, cataloguing and storage, accounting procedures, and records maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in repair parts management techniques (6/75). *Version 2:* In the vocational certificate category, 3 semester hours in parts merchandising or inventory control (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in parts merchandising or inventory control (7/74); in the upper-division baccalaureate category, 3 semester hours in parts merchandising or inventory control (7/74).

Related Occupation Codes: 76P; 76S.

AR-1405-0036

Automotive Repair Parts, Skill Development Base

Course Number: 551-76S20-I.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (427 hours).

Exhibit Dates: 4/69–2/73.

Objectives: To train selected enlisted personnel as supervisors of automotive repair parts supply operations.

Instruction: Lectures and practical exercises in the duties of an automotive repair parts specialist, military command subjects, instructor training, accounting procedures, data processing systems, and storage operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in parts and service merchandising or supply management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in parts and service merchandising or supply management (7/74); in the upper-division baccalaureate category, 3 semester hours in parts and service merchandising or supply management (7/74).

Related Occupation Codes: 76S.

AR-1405-0037

ASSOCIATE ORDNANCE COMPANY OFFICER

Course Number: 9-A-C3; 9-O-2.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 14 weeks (504–505 hours).

Exhibit Dates: 7/56–12/68.

Objectives: To train officers in the duties and responsibilities of company grade ordnance officers.

Instruction: Lectures and practical exercises in the duties of associate ordnance company officers, including tactics and staff procedures, ordnance service fundamentals, military leadership and management fundamentals, ordnance general supply, management of organizational supply, maintenance logistics, field and depot supply and maintenance management, ordnance ammunition service, logistical aspects of new Army organizations, guided missile and special weapons logistics, problems in ordnance service management, and specific materiels.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in supply management (12/68).

AR-1405-0038

SUPPLY HANDLING

Course Number: 10-R-550.0; 10-E-35.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (280 hours).

Exhibit Dates: 8/53–12/68.

Objectives: To train enlisted personnel as supply handlers.

Instruction: Lectures and practical exercises in loading and unloading supplies and equipment, operation of materials handling equipment, and the receipt, storage, issue, sale, and salvage of technical or general material. Course includes basic mathematics, Army supply system, packing and crating, classification and disposal, storage operations, materials handling equipment, and petroleum products handling.

Credit Recommendation: In the vocational certificate category, 3 semester hours in materials handling (7/74).

AR-1405-0039

ARMY SUPPLY MANAGEMENT

Course Number: 400-O-1.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (441 hours).

Exhibit Dates: 2/56–12/57.

Objectives: To train supply managerial personnel in advanced aspects of supply management.

Instruction: Lectures and practical exercises on supply management, including Army supply organization, logistical careers, mobilization supply planning, control of levels and requirements, modernization of the Army, industrial mobilization base, cataloging and commodity assignment, effects of procurement on supply, factors affecting procurement, Army distribution system, stock control, maintenance, disposal of excess stocks, delegation of supply responsibility, transportation and traffic management, personnel management, management controls, control devices, monetary controls, and logistical problems.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in administration and supply (12/68).

AR-1405-0040

1. PETROLEUM OFFICER
2. PETROLEUM OFFICER
   (Petroleum Products Supply Officer)
   (Petroleum Products Analysis and Supply)
3. PETROLEUM PRODUCTS SUPPLY
4. PETROLEUM PRODUCTS SUPPLY
5. PETROLEUM PRODUCTS ANALYSIS AND CONTROL OFFICER

Course Number: *Version 1:* 8B-4960. *Version 2:* 8B-4960; 10-A-4960. *Version 3:* 10-O-12. *Version 4:* 10-O-12. *Version 5:* 10-O-12.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 12 weeks (418–424 hours). *Version 2:* 13–16 weeks (467–558 hours). *Version 3:* 14 weeks (490 hours). *Version 4:* 8 weeks (280 hours). *Version 5:* 15 weeks (563 hours).

Exhibit Dates: *Version 1:* 7/68–Present. *Version 2:* 8/58–6/68. *Version 3:* 6/56–7/58. *Version 4:* 6/55–5/56. *Version 5:* 9/54–5/55.

Objectives: To provide commissioned officers with a working knowledge of the functions, duties, and responsibilities of petroleum supply and laboratory techniques.

Instruction: Lectures and practical exercises in general petroleum subjects; basic laboratory subjects and tests; chemical laboratory tests; petroleum supply operations; terminal operations; and pipeline operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in petroleum laboratory techniques (6/75); in the upper-division baccalaureate category, 3 semester hours in petroleum supply management (6/75). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in petroleum products supply management, 2 in laboratory analysis (12/68). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in petroleum products supply management (12/68). *Version 4:* In the upper-division baccalaureate category, 2 semester hours in petroleum products supply management (12/68). *Version 5:* In the upper-division baccalaureate category, 2 semester hours in petroleum products supply management, 2 in laboratory analysis (12/68).

AR-1405-0041

QUARTERMASTER COMPANY OFFICER

Course Number: *Version 1:* 10-A-C2. *Version 2:* 10-O-1. *Version 3:* 10-O-1.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 20 weeks (609–657 hours). *Version 2:* 35–36 weeks (1129–1243 hours). *Version 3:* 24 weeks (762 hours).

Exhibit Dates: *Version 1:* 12/57–12/68. *Version 2:* 9/55–11/57. *Version 3:* 4/55–8/55.

Objectives: To train commissioned officers in the duties and responsibilities of company grade Quartermaster Corps officers.

Instruction: *All Versions:* Lectures and practical exercises in the duties and responsibilities of company grade Quartermaster Corps officers. *Version 1:* Topics include command and staff procedures, organization and tactics of combat arms, supply and distribution procedures, QM operations in TOPNS, commissary operations, tactical employment of combat arms, intelligence and operations, and combat zone. *Version 2:* Topics include unit organization supply, principles of procurement, combat arms defensive operations, intelligence and operations, basic metals and metal fabricating, contract law, Army command management, and installation supply. *Version 3:* Topics include unit and organization supply, station supply, commissary operations, command and staff, food service, comptroller and financial management, operation and maintenance, and QM functions.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in business organization and management, and 4 in supply management (12/68). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in business organization and management, and 6 in supply management (12/68). *Version 3:* In the upper-division baccalaureate category, 2 semester hours in business organization and management, and 5 in supply management (12/68).

AR-1405-0042

STORAGE AND DISTRIBUTION MANAGEMENT
(Distribution Management)

Course Number: 400-I-F3.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 8 weeks (320 hours).

Exhibit Dates: 5/57–12/68.

Objectives: To train officers and civilians in storage and distribution management.

Instruction: Lectures and practical exercises in storage and distribution management, including interrelationship of logistics functions, organization and management of the Army distribution system, the depot system, tools of distribution management, management of depot operations, traffic management, and management controls.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in supply management (7/74).

AR-1405-0043

TRANSPORTATION PARTS SPECIALIST
(Transportation Parts Supply)

Course Number: 55-E-45.

Location: Transportation School, Ft. Eustis, VA.

Length: 4 weeks (145–153 hours).

Exhibit Dates: 7/54–12/68.

Objectives: To train enlisted personnel to perform as transportation parts specialists.

Instruction: Lectures and practical exercises on the use, interchangeability, and identification of transportation spare parts, and the receipt, storage, and issuance of parts for transportation equipment, including general supply procedures; identification, classification, and interchangeability of spare parts; receiving, storage, and issue procedures; and shipment procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (7/74).

AR-1405-0044

SUBSISTENCE STORAGE SPECIALIST

Course Number: *Version 1:* 822-76X20; 822-56D2. *All Versions:* 10-R-533.1. *Version 2:* 10-E-23.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 6 weeks (196–217 hours). *Version 2:* 8 weeks (280 hours).

Exhibit Dates: *Version 1:* 10/63–Present. *Version 2:* 3/56–9/63.

Objectives: To train enlisted personnel to receive, store, issue, and ship subsistence supplies.

Instruction: *All Versions:* Lectures and practical exercises in subsistence supplies requisitioning and receiving, storage, shipping, issue, materials-handling equipment, packaging, depot stock control procedures, commissary operations, and supply system organization. *Version 2:* Instruction includes basic mathematics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in materials handling (7/74). *Version 2:* In the vocational certificate category, 3 semester hours in materials handling (7/74).

Related Occupation Codes: 76X.

AR-1405-0045

TRANSPORTATION SUPPLY OFFICER

Course Number: 55-B-4474.

Location: Transportation School, Ft. Eustis, VA.

Length: 5 weeks (175 hours).

Exhibit Dates: 12/59–12/68.

Objectives: To train officers to direct and supervise receipt, storage, and issue of Transportation Corps supplies and equipment.

Instruction: Lectures and practical exercises in general supply and transportation supply management functions, including receipt, storage, and issue of Transportation Corps supplies and equipment, manpower control, industrial funds, introduction to accounting, stock funds and consumer funding, performance analysis and work measurement, aircraft technical publications, and officer indoctrination and physical conditioning.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in supply management (12/68).

AR-1405-0046

ASSOCIATE QUARTERMASTER OFFICER CAREER

Course Number: 8-10-C23; 10-A-C23.

Location: Quartermaster School, Ft. Lee, VA.

Length: 15–16 weeks (525–579 hours).

Exhibit Dates: 10/60–12/68.

Objectives: To train commissioned officers as Quartermaster Corps officers.

Instruction: Lectures and practical exercises in duties of Quartermaster Corps officers, including supply control, storage, and distribution; financial management; automated supply systems; communicative skills; map and air photograph reading; nuclear, chemical, biological, electronics, and radiological warfare; emergency planning; signal communications; and logistics and combat operations.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in supply management, 2 in business organization and management (12/68).

AR-1405-0047

GENERAL SUPPLY SPECIALIST
(Unit Supply)

Course Number: 10-R-768.2; 10-R-768.1; 10-E-12.

Location: Quartermaster School, Ft. Lee, VA.

Length: 6–8 weeks (210–284 hours).

Exhibit Dates: 8/53–12/68.

Objectives: To train supply clerks to perform as general supply specialists.

Instruction: Lectures and practical exercises in general unit supply duties, general supply operations and logistics, organizational maintenance of small arms, and duties of unit armorer, including unit and organization supply, installation supply, fitting of clothing and footwear, packing and crating, organizational maintenance of small arms, federal supply system, supply publications, surveillance, storage, and preparation for unit movement.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/74).

AR-1405-0048

ORDNANCE OFFICER BASIC

Course Number: *Version 1:* 4-9-C20. *Version 2:* 9-A-C1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 9–12 weeks (339–464 hours). *Version 2:* 9 weeks (344 hours).

Exhibit Dates: *Version 1:* 9/70–6/77. *Version 2:* 10/57–8/70.

Objectives: To train newly commissioned officers in the duties and responsibilities of Ordnance Corps officers.

Instruction: *All Versions:* Lectures and practical exercises in the duties and responsibilities of ordnance officers, including basic officer military orientation, administration, and ordnance materiel supply. *Version 1:* Topics include management and general subjects, organizational supply and maintenance, and ordnance familiarization. *Version 2:* Topics include operations, tactics and staff procedures, ordnance service organization, and ordnance field service.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in management (1/78). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in supply management, and credit in advanced military at institutions which normally offer such credit (12/68).

AR-1405-0049

QUARTERMASTER SUPPLY SUPERVISION

Course Number: 10-E-33.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (277 hours).

Exhibit Dates: 8/54–12/68.

Objectives: To train enlisted personnel to supervise supply activities.

Instruction: Lectures and practical exercises in the supervision of supply activities, excluding petroleum and subsistence stores. Course includes supply management, station supply, and depot and storage operation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in materials handling (7/74); in the upper-division baccalaureate category, 3 semester hours in supply management (12/68).

AR-1405-0050

QUARTERMASTER PARTS SUPPLY

Course Number: 551-774.1; 10-R-774.1; 10-E-39.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (140–145 hours).

Exhibit Dates: 12/53–12/68.

Objectives: To train enlisted personnel to use, identify, receive, store, and issue repair parts for quartermaster equipment.

Instruction: Lectures and practical exercises in the receipt, storage, and identification of repair parts for quartermaster equipment. Course includes interchangeability of repair parts; packaging; stock control; identification and relationship of major and minor assemblies of materials handling equipment; and special-purpose vehicles and equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in materials handling (7/74).

AR-1405-0051

MEDICAL SUPPLY SPECIALIST RESERVE COMPONENT (NONRESIDENT/RESIDENT)

Course Number: 551-76J10 (RC).

Location: Phase II—Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase II—2 weeks (74 hours).

Exhibit Dates: 12/77–Present.

Objectives: To provide medical supply specialists with a working knowledge of medical materiel procedures.

Instruction: Phase II, the resident portion of the course, consists of lectures and practical exercises in medical supply procedures including property control, automated property control, and stock accounting procedures for medical units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (8/79). Note: Phase I of this course is nonresident in nature and carries no credit. Credit recommendation applies only to Phase II, the resident portion of the course.

Related Occupation Codes: 76J.

AR-1405-0052

SIGNAL SUPPLY OFFICER ADVANCED
(Signal Supply Advanced)

Course Number: 11-A-F1; 11-O-23.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12–13 weeks (456–478 hours).

Exhibit Dates: 2/55–12/68.

Objectives: To train commissioned officers to manage signal supply activities, including requirements, national stock control, and supply control.

Instruction: Lectures and practical exercises in the management of signal supply activities. Course includes oral and written communications, general management, personnel management, financial inventory management, and production management.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-1405-0053

PROPERTY DISPOSAL

Course Number: 10-O-14.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (148 hours).

Exhibit Dates: 9/54–12/68.

Objectives: To train commissioned officers to dispose of property.

Instruction: Lectures and practical exercises in the functions, duties, and responsibilities of property disposal officers. Course includes general management, commercial law, general supply procedures, receipt and processing property for disposal, disposition of property and salvage operations.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in general management, 1 in business law (7/74).

AR-1405-0054

AMMUNITION RECORDS CLERK, SKILL DEVELOPMENT BASE

Course Number: 551-76M20-I.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 12 weeks (425 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train selected enlisted personnel to perform the duties of an ammunition records clerk.

Instruction: Lectures and practical exercises in the duties of an ammunition records clerk. Course includes leadership training; ammunition material, storage, handling, and movement; chemical ammunition; and maintenance and destruction.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/74).

Related Occupation Codes: 76M; 55B.

AR-1405-0055

Chemical Supply Supervision

Course Number: 3-R-761.6; 3-E-15.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 3 weeks (116–118 hours).

Exhibit Dates: 6/56–12/68.

Objectives: To train noncommissioned officers who are qualified as chemical supply and parts specialists to supervise the operations of depot supply activities.

Instruction: Lectures and practical exercises in the supervision of the operations of depot supply activities, including logistics, general supply management, procurement, military transportation, supply policies and procedures, distribution and storage, maintenance, theater supply and service operations, military training and operations, combat arms, technical aspects of biological and chemical weapons systems, nuclear warfare, and medical training and support.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-1405-0056

Engineer Supply and Spare Parts Officer

Course Number: 5-O-20.

Location: Engineer School, Ft. Belvoir, VA.

Length: 8 weeks (286 hours).

Exhibit Dates: 6/56–12/68.

Objectives: To train commissioned and warrant officers to perform as engineer supply and spare parts officers.

Instruction: Lectures and practical exercises on the direction and supervision of the procurement and storage of engineer supplies, equipment, and spare parts, including organization for supply, depot organization and services, stock control, storage, engineer repair parts supply, and maintenance.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in supply management (12/68).

Related Occupation Codes: 761A; 762A.

AR-1405-0057

Requirements Management

Course Number: 400-I-F2.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 8 weeks (240–352 hours).

Exhibit Dates: 3/57–12/68.

Objectives: To train officers in inventory control, mathematics, requirements computation, and commodity management problems.

Instruction: Lectures and practical exercises in inventory control, mathematics, requirements computation, and commodity management problems, including management and communications, basic statistical mathematics and graph work, human relations, pipeline principles and operation, supply-level analysis, system limitations, collection and evaluation of data, material control of principal and secondary items, demand forecasting, inventory modernization, financial management, standardization, and various policies and concepts applicable to inventory management.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in business management (12/68).

Related Occupation Codes: 711A.

AR-1405-0058

Property Disposal

(Property Disposal Management)

Course Number: 400-I-4600.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 5 weeks (152–200 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To train property disposal officers in property disposal management.

Instruction: Lectures and practical exercises in property disposal management, including regulatory statutes, governmental regulations and policies, property disposal operations, logistics, excess-property screening, types of property, preparation for sale and other disposal methods, display procedures, financial relationships, personnel management, and strategic material disposal.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in property disposal management (12/68).

Related Occupation Codes: 411A; 621A.

AR-1405-0059

Engineer Supply

Course Number: 5-E-35.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 2/56–12/68.

Objectives: To train enlisted personnel to perform supply duties and maintain records for the receipt, storage, issue, shipment, classification, and salvage of engineer material.

Instruction: Lectures and practical exercises in supply procedures and record maintenance for the receipt, storage, issue, shipment, classification, and salvage of engineer material, including depot and station supply operations; supply storage, packing, crating, processing, preserving, and marking of materiel; repair parts supply; supply installations security; equipment

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in supply management (7/74).

AR-1405-0060

Supply Staff Officer, G4/S4

Course Number: 8A-4010.

Location: Quartermaster School, Ft. Lee, VA.

Length: 3–4 weeks (105–143 hours).

Exhibit Dates: 11/68–Present.

Objectives: To train commissioned officers to plan, direct, supervise, and coordinate composite activities related to supply, evacuation, transportation services, and other logistical activities.

Instruction: Lectures and practical exercises in supply activities, including evacuation concerns, transport, and other related concerns. Course includes policies and procedures related to acquisition, control and maintenance, and distribution of supplies; and financial accounting in tactical organizations, posts, and installations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management (12/68).

AR-1405-0061

Unit Supply Specialist

(Unit and Organization Supply Specialist and Armorer)

Course Number: 552-76Y10; 552-76Y20; 552-76Y30.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 8–9 weeks (285–314 hours). *Version 2:* 7–9 weeks (262–308 hours).

Exhibit Dates: *Version 1:* 9/71–Present. *Version 2:* 9/67–8/71.

Objectives: To train selected enlisted personnel to perform supply duties and to maintain small arms.

Instruction: *All Versions:* Lectures and practical exercises in supply operations and the maintenance of small arms. Course includes basic mathematics, typewriting, use of technical publications, unit and organization supply procedures, and organizational maintenance of small arms. *Version 1:* Instruction is divided into two phases. Phase I (6 weeks) covers unit and organization supply operations and Phase II covers maintenance of small arms.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in supply record maintenance (6/75). Note: This recommendation is based on completion of Phase I. Credit is not recommended for Phase II because of the military nature of the training (see Instruction section for Version 1 above). *Version 2:* In the vocational certificate category, 1 semester hour in typing, 1 in supply management (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 1 in supply management (7/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

Related Occupation Codes: 76Y.

AR-1405-0062

Subsistence Supply Supervision

Course Number: 10-R-553.6; 10-E-34.

Location: Quartermaster School, Ft. Lee, VA.

Length: 5–8 weeks (177–277 hours).

Exhibit Dates: 8/54–12/68.

Objectives: To train subsistence storage specialists to supervise the receipt, storage, issue, and sale of subsistence supplies.

Instruction: Lectures and practical exercises in the supervision of the receipt, storage, issue, and sale of subsistence supplies, including administrative procedures, basic mathematics, financial management, supply and accounting procedures, depot and commissary operations, procurement, food service, logistics, processing, packaging, crating and marking, materials handling equipment, teaching principles, and defense operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management (7/74).

AR-1405-0063

QUARTERMASTER OFFICER ORIENTATION

Course Number: 8-10-C21.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (128–142 hours).

Exhibit Dates: 9/67–12/73.

Objectives: To train commissioned officers as Quartermaster Corps officers.

Instruction: Lectures and practical exercises in duties of Quartermaster Corps officers, including supply management and accounting procedures, airborne operations, food operations, financial management, procurement, maintenance procedures, property disposal, automated supply systems, and military subjects.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management (7/74).

AR-1405-0064

SUPPLY SPECIALIST REFRESHER

Course Number: 551-F6.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (140 hours).

Exhibit Dates: 1/67–Present.

Objectives: To provide enlisted personnel with refresher training in supply operations, inventory control procedures, and storage operations.

Instruction: Lectures and practical exercises in supply operations, inventory control, and storage operations.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

Related Occupation Codes: 76P; 76Q; 76R; 76S; 76T; 76U; 76V; 76Y; 76Z.

AR-1405-0065

DEFENSE ADVANCED DISPOSAL MANAGEMENT

Course Number: 8B-F17.

Location: Logistics Management Center, Ft. Lee, VA; On-Site and Off-Campus Locations, Continental U.S.

Length: *Version 1:* 4 weeks (151–152 hours); *Version 2:* 4 weeks (150 hours).

Exhibit Dates: *Version 1:* 7/68–Present; *Version 2:* 10/67–6/68.

Objectives: To train military and civilian personnel in the management of property disposal activities.

Instruction: Lecture-conferences, practical exercises, and cases in property disposal management. Topics include management principles and techniques, Department of Defense disposal program, and management of disposal operations—marketing by and administration of holding activities, property control, materiel processing, and contracting procedures.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in general management (3/76). *Version 2:* In the vocational certificate category, 1 semester hour in supply management (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in supply management (7/74); in the upper-division baccalaureate category, 3 semester hours in surplus property disposal management (12/68).

Related Occupation Codes: 411A; 621A; 630A; 631A; 632A.

AR-1405-0066

SUBSISTENCE STORAGE SPECIALIST SKILL DEVELOPMENT BASE

Course Number: 822-76X40-1.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (437 hours).

Exhibit Dates: 3/69–Present.

Objectives: To train selected enlisted personnel to perform as supervisors and technicians in subsistence storage and supply.

Instruction: Lectures and practical exercises in the duties of a subsistence storage specialist. Course includes leadership subjects, inspections, map reading, internal defense and development, administrative concerns, accounting, ration breakdown operations, depot storage operations, and subsistence supply.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (8/74).

Related Occupation Codes: 76X.

AR-1405-0067

ELECTRONIC WARFARE (EW) INTERCEPT SYSTEMS REPAIRMAN BASIC TECHNICAL

Course Number: 102-33S30; 102-F29.

Location: Intelligence School, Ft. Devens, MA.

Length: 2 weeks (61 hours).

Exhibit Dates: 2/76–Present.

Objectives: To train technicians in organizational supply for communications systems maintenance.

Instruction: Methodology and practices in property accounting, structuring and operation of a unit supply operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply and maintenance management (9/77).

Related Occupation Codes: 33S.

AR-1405-0068

1. MISSILE AND MUNITIONS OFFICER (Ammunition and Missile Maintenance Officer)
2. AMMUNITION AND MISSILE MAINTENANCE OFFICER (Guided Missile and Special Weapons Staff Officer) (Ordnance Staff Officer Guided Missile and Special Weapons) (Ordnance Staff Officer Guided Missile and Nuclear Weapons)

Course Number: *All Versions:* 4E-4511; *Version 2:* 9-A-4511.

Location: *All Versions:* Missile and Munitions School, Redstone Arsenal, AL; *Version 2:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 8–20 weeks (247–701 hours); *Version 2:* 12–18 weeks (431–640 hours).

Exhibit Dates: *Version 1:* 4/69–Present; *Version 2:* 12/58–3/69.

Objectives: To provide company commanders and field grade officers with an overview of the various Army missile systems.

Instruction: *All Versions:* Lectures and practical exercises covering operational aspects of Army missile systems and ammunition and missile maintenance, service, and supply. *Version 2:* Includes a brief overview of electrical and electronic circuits.

Credit Recommendation: *Version 1:* No credit because of the limited technical nature of the course (6/74). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in supply management (12/68).

AR-1405-0069

1. QUARTERMASTER OFFICER BASIC, COMMON CORE
2. QUARTERMASTER OFFICER BASIC
3. QUARTERMASTER OFFICER BASIC
4. QUARTERMASTER OFFICER ORIENTATION (Quartermaster Officer Basic)

Course Number: *All Versions:* 8-10-C20; *Version 4:* 10-A-C20; 10-O-A; 10-A-C1.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 10 weeks (373 hours); *Version 2:* 12 weeks (440–456 hours); *Version 3:* 9 weeks (300–328 hours); *Version 4:* 8–14 weeks (296–490 hours).

Exhibit Dates: *Version 1:* 8/79–Present; *Version 2:* 6/73–7/79; *Version 3:* 4/68–5/73; *Version 4:* 6/55–3/68.

Objectives: To train newly commissioned quartermaster officers for their first duty assignment.

Instruction: *All Versions:* Lectures and practical exercises in basic quartermaster officer training, including officer orientation, skill functions, unit functions, combined arms, and skill application. *Version 1:* Topics include methods and conduct of inspection, conditioning activities, methods of instruction, military briefing techniques, Army maintenance management system, fuel system supply point and tank vehicles, dining facility accounting, CBR operations, basic supply, electronic countermeasures and counter-countermeasures, and qualification firing. *Version 4:* Topics include map and air photograph reading, CBR and nuclear weapons, communications equipment, supply and distribution procedures, maintenance and inspection, installation supply, and company administration.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 2 semester hours in organizational behavior and leadership and 3 in supply management (6/75). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in supply management, 2 in business organization and management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management, 2 in business organization and management (7/74). *Version 4:* In the lower-division baccalaureate/associate degree category, 2 semester hours in supply management, 2 in business organization and management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management and credit in military science at institutions which normally offer such credit (12/68).

AR-1405-0070

1. SUPPLY MANAGEMENT OFFICER
2. ARMY SUPPLY OFFICER

Course Number: *All Versions:* 8B-4201; 8B-761A; 8B-762A; *Version 2:* 10-B-761A.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 9–10 weeks (321–352 hours); *Version 2:* 7 weeks (248–251 hours).

Exhibit Dates: *Version 1:* 1/68–Present; *Version 2:* 8/64–12/67.

Objectives: To train officers in supply policies, principles, and procedures.

Instruction: Lectures and practical exercises in supply and maintenance operations, supply accounting, inventory management, automatic data processing, financial management, storage, procurement, and property disposal.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in supply management (6/75). *Version 2:* In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management (7/74).

Related Occupation Codes: 761A; 762A.

AR-1405-0071

1. Logistics Executive Development
2. Army Logistics Management
(Army Supply Management)

Course Number: *Version 1:* 8A-F17. *Version 2:* 8A-F1; 400-G-F1.

Location: Logistics Management Center, Ft. Lee, VA.

Length: *Version 1:* 19 weeks (677-691 hours). *Version 2:* 12 weeks (396-480 hours).

Exhibit Dates: *Version 1:* 7/70-Present. *Version 2:* 12/57-6/70.

Objectives: To train officers in logistics management.

Instruction: *All Versions:* Lectures and practical exercises in logistics management, including general materiel management, inventory and maintenance management, depot operation management, and disposal, management philosophy, decision-making and problem-solving techniques, management development, personnel management and human resources, and communications and information systems management, financial management, procurement, contract definition, and economics of management, computer applications, and management planning; and international logistics. *Version 2:* Includes development of national strategy, military strategy, and foreign policy, logistics organizations and overview, quantitative analysis and systems analysis, engineering with relation to acquisition of materiel, distribution and transportation management, planning, operation, maintenance and management of buildings, grounds, and facilities, future trends in logistics doctrine, joint and combined operational commands and field logistics, and electives in defense procurement, assets, or inventory management, risk decision analysis, cost estimating, automatic data processing on an executive level, system development requirements, computers in logistics, research and development/test management, national security management, logistics research, or operations research/systems analysis.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in general management electives, 6 in quantitative analysis, 6 in logistics management (8/74); in the graduate degree category, 9 semester hours in general management and quantitative analysis (8/74). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in supply management (8/74).

AR-1405-0072

Quartermaster Officer
Familiarization

Course Number: 10-A-C21.

Location: Quartermaster School, Ft. Lee, VA.

Length: 5 weeks (175 hours).

Exhibit Dates: 12/60-12/68.

Objectives: To provide commissioned officers with branch training in the organization and operation of the Quartermaster Corps.

Instruction: Lectures and practical exercises in the organization and operation of the Quartermaster Corps, including quartermaster missions, installation supply and stock control procedures, procurement operations, depot and storage operations, Army management, maintenance and inspection, petroleum supply, and organization and procedures for supply of QM commodities in TOPNS.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in supply management (12/68).

AR-1405-0073

1. Installation Stock Control
(Quartermaster Stock Control)
2. Quartermaster Stock Control

Course Number: *All Versions:* 10-O-7. *Version 1:* 10-G-F1; 10-I-F1.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 3-4 weeks (119-140 hours). *Version 2:* 6 weeks (213 hours).

Exhibit Dates: *Version 1:* 9/55-12/68. *Version 2:* 9/54-8/55.

Objectives: To provide training in quartermaster stock control and accounting procedures at post, camp, or station.

Instruction: Emphasis is on basic supply procedures, installation stock control, and financial management of inventory. Course also covers property accountability and responsibility, supply functions, property accounts, stock records, processing of requisitions, installation and use of storage facilities, and bids and contracts.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in supply management (12/68). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in supply management (12/68).

Related Occupation Codes: 761A; 762A.

AR-1405-0074

The Logistician in Review

Course Number: ALM-61-4467-H.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 29 weeks (32 hours).

Exhibit Dates: 7/76-Present.

Objectives: To further the student's understanding of the impact of logistics on decisions in military history.

Instruction: Lectures, discussions, research, and written exercises covering examples of the significance of logistics to military operations from classic times to the present.

Credit Recommendation: In the graduate degree category, 2 semester hours of elective credits in logistical analysis in an historical context (12/76).

AR-1405-0075

Army Provisioning Management
(Army Initial Provisioning Management)

Course Number: ALM-43-0238.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 4 weeks (108-125 hours).

Exhibit Dates: 7/72-Present.

Objectives: To train military and civilian personnel in the Army provisioning process how to determine the initial materiel support requirements of Army equipment.

Instruction: Lecture-conferences, practical exercises, workshops and cases. Topics include planning for functional interrelationships in the provisioning process (procurement, maintenance, and supply functions), provisioning management controls and techniques, and logistic support engineering and the provisioning process.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in supply planning and management (3/78).

Related Occupation Codes: 761A; 762A.

AR-1405-0076

Defense Inventory Management

Course Number: 8B-F11.

Location: Logistics Management Center, Ft. Lee, VA; On-Site and Off-Campus Locations, Continental U.S.

Length: 5-6 weeks (187-227 hours).

Exhibit Dates: 1/66-Present.

Objectives: To provide officers and civilian personnel with an understanding of the principles and techniques involved in the management of Defense Department materiel inventories.

Instruction: Lecture-conferences, practical exercises, computer-assisted simulations and guest lectures. Topics include inventory theory, material requirements determination, priority determinations, procurement, cataloging and inventory management at wholesale and retail levels.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in inventory management (12/75).

Related Occupation Codes: 761A; 762A; 411A; 630A; 631A; 632A; 951A; 951C; 951D; 951E; 951F; 951G.

AR-1405-0077

Supply (SU CMF) Noncommissioned
Officer (NCO) Advanced

Course Number: 5-SU-C42A.

Location: Quartermaster School, Ft. Lee, VA.

Length: 11 weeks (363-368 hours).

Exhibit Dates: 1/75-Present.

Objectives: To provide selected enlisted personnel with the necessary supervisory skills to perform as noncommissioned officers.

Instruction: Lectures and practical exercises in logistical combat support, leadership, maintenance management, communication techniques, automatic data processing, storage operations, procurement management, and property disposal.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

Related Occupation Codes: 76N; 76P; 76Q; 76R; 76S; 76T; 76U; 76V; 76X; 76Y; 76Z.

AR-1405-0078

Defense Advanced Disposal
Management Correspondence
Course

Course Number: 8B-F17.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: 184 "credit"* hours.

Exhibit Dates: 9/76-Present.

Objectives: To train personnel in the management of property disposal activities.

Instruction: *A "credit" hour is a measured unit of correspondence work. The number of credit hours assigned to a course is the estimated time required for an average student to read assignments and solve the exercises. The term 'credit' does not refer to academic credit hours. Correspondence lessons cover management techniques and skills, Department of Defense disposal program, and management of disposal operations; marketing by and administration of holding activities, property control, materiel processing, and contracting procedures.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in general management (12/76).

AR-1405-0079

Defense Inventory Management Correspondence Course

Course Number: 8B-F11.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: 198 "credit"* hours.

Exhibit Dates: 7/76-Present.

Objectives: To provide students with an understanding of the principles and techniques involved in the management of Defense Department materiel inventories.

Instruction: *A "credit" hour is a measured unit of correspondence work. The number of credit hours assigned to a course is the estimated time required for an average student to read assignments and solve the exercises. The term 'credit' does not refer to academic credit hours. Topics include inventory theory, materiel requirements determination, priority determination, procurement cataloging, and inventory management at wholesale and retail levels.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in inventory management (12/76).

AR-1405-0080

Defense Property Disposal Operations Correspondence Course

Course Number: 8G-F1.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: 142 "credit"* hours.

Exhibit Dates: 9/76-Present.

Objectives: To train students to perform property disposal activities.

Instruction: *A "credit" hour is a measured unit of correspondence work. The number of credit hours assigned to a course is the estimated time required for an average student to read assignments and solve the exercises. The term 'credit' does not refer to academic credit hours. Correspondence lessons cover disposal responsibilities and processing property for disposal, property disposition, presale action at holding offices and sales offices, sale and contracting procedures, and management controls and operations.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in property disposal management (12/76).

AR-1405-0081

Logistics Executive Development Correspondence Course

Course Number: 8A-F17.

Location: Sponsored by Logistics Management Center, Ft. Lee, VA.

Length: 450 "credit"* hours.

Exhibit Dates: 6/75-Present.

Objectives: To train officers in logistics management.

Instruction: *A "credit" hour is a measured unit of correspondence work. The number of credit hours assigned to a course is the estimated time required for an average student to read assignments and to solve the exercises. The term 'credit' does not refer to academic credit hours. Correspondence lessons cover management principles, financial management, the acquisition process, assets management, economic and statistical principles, and logistics management.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hours in general management, 4 in economic principles and decision making, and 6 in logistics management (12/76); in the graduate degree category, 3 semester hours in general management (12/76).

AR-1405-0082

Army Cataloging
(AMC Cataloging)

Course Number: ALM-58R900.

Location: Logistics Management Center, Ft. Lee, VA.

Length: Self-paced 3 weeks (Averaging about 92 hours).

Exhibit Dates: 7/75-Present.

Objectives: To provide the knowledge and skill necessary to perform supply parts cataloging functions.

Instruction: Programmed instruction and practical exercises covering the Federal Cataloging System, the Defense Integrated Data System, and the Commodity Command Standard System. Initial, intermediate, and final surveys are used to examine the students throughout the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in supply cataloging (12/76).

AR-1405-0083

Commodity Command Standard System (CCSS) Supply Management

Course Number: ALM-54E099.

Location: Logistics Management Center, Ft. Lee, VA.

Length: Self-paced 3 weeks (Averaging about 96 hours).

Exhibit Dates: 4/76-Present.

Objectives: To provide commodity managers with the knowledge required for job performance in the functional field of supply management under a Commodity Command Standard System operating environment.

Instruction: Programmed instruction texts and video taped lectures cover report analysis and problem identification, input preparation, and interface considerations. Lecture conferences and workshops are used for orientations and critiques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (12/76).

AR-1405-0084

Commodity Command Standard System (CCSS) Stock Control

Course Number: ALM-54429.

Location: Logistics Management Center, Ft. Lee, VA.

Length: Self-paced 2 weeks (Averaging about 76 hours).

Exhibit Dates: 4/76-Present.

Objectives: To provide commodity managers with the knowledge to perform stock control managerial functions within a Commodity Command Standard System operation environment.

Instruction: Programmed instruction and video taped lectures covering related files, input transactions, processing requisition and management reports on a variety of subjects, including inventory and accounting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory control (12/76).

AR-1405-0085

Commodity Command Standard System (CCSS) Procurement and Production

Course Number: ALM-55110.

Location: Logistics Management Center, Ft. Lee, VA.

Length: Self-paced 3 weeks (Averaging about 96 hours).

Exhibit Dates: 4/76-Present.

Objectives: To enable Commodity Command personnel to acquire the detailed knowledge necessary to employ the automated integrated procurement and production system successfully.

Instruction: Programmed instruction, video taped lectures, and surveys covering the procurement and interface factors of the Commodity Command Standard System.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in procurement procedures (12/76).

AR-1405-0086

Commodity Command Standard System (CCSS) Army Stock Fund

Course Number: ALM-55-H210.

Location: Logistics Management Center, Ft. Lee, VA.

Length: Self-paced 2 weeks (Averaging about 60 hours).

Exhibit Dates: 4/76-Present.

Objectives: To enable the student to acquire the knowledge and skills necessary to perform Army stock fund accounting functions within the Commodity Command Standard ADP System.

Instruction: Lectures, video tapes, programmed instruction, simulations and practical exercises covering the maintenance of automated accounting files, to include preparation of input and evaluation of output. File structure and processes are explained, as well as functional interfaces with supply management, procurement, and inventory control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in stock fund automated accounting procedures (12/76).

AR-1405-0087

DARCOM Depot Physical Inventory Management

Course Number: ALM-58R700.

Location: Logistics Management Center, Ft. Lee, VA.

Length: Self-paced 2 weeks (Averaging about 75 hours).

Exhibit Dates: 12/75-Present.

Objectives: To enable Commodity Command personnel to acquire the detailed knowledge necessary to employ the automated integrated depot physical inventory system.

Instruction: Programmed instruction and practical exercises covering location survey, record audit/matches, materiel release denials, reports and quality control; reinforcement of knowledge gained in a complete physical inventory action is depicted in a computerized simulation; video tape lectures introduce each block of instruction; initial, intermediate, and final surveys are used to examine the students throughout the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory management (12/76).

AR-1405-0088

DARCOM COMMODITY COMMAND PHYSICAL INVENTORY MANAGEMENT

Course Number: ALM-58R00.

Location: Logistics Management Center, Ft. Lee, VA.

Length: Self-paced 2 weeks (Averaging about 53 hours).

Exhibit Dates: 12/75–Present.

Objectives: To enable Commodity Command personnel to acquire the detailed knowledge necessary to employ the automated integrated physical inventory program.

Instruction: Programmed instruction and practical exercises covering requesting/reconciling inventories, receipt processing/control procedures, materiel release denials/zero balance flasher, and quality control. Reinforcement of knowledge gained in the location record audit/match is depicted in an audio tape case; video tape lectures are utilized to introduce each block of instruction; initial, intermediate, and final surveys are used to examine students throughout the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory management (12/76).

AR-1405-0089

ORDNANCE OFFICER (OBC) BASIC MISSILE MATERIEL MANAGEMENT

Course Number: 4-9-C20-71A.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD; Missile and Munitions School, Redstone Arsenal, AL.

Length: 18-22 weeks (809 hours).

Exhibit Dates: 6/77–Present.

Objectives: To prepare newly commissioned officers for duty assignment in missile material maintenance specialty.

Instruction: Phase I training at Aberdeen Proving Ground includes logistical subjects such as support shop operations, direct support supply/maintenance exercises, and logistical assistance, and military subjects such as unit and organizational management, combined arms operation and tactical field training exercises. Phase II at Redstone Arsenal covers missile material and maintenance personnel management. Subjects to include calibration and load testing, unit safety, basic electronics, guided missile fundamentals, nuclear weapons storage and safety, introduction to radar and introduction to various military missile subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (6/79); in the upper-division baccalaureate category, 3 semester hours in management (1/78).

AR-1405-0090

ORDNANCE OFFICER BASIC CHEMICAL

Course Number: 4-9-C20-74A.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 17 weeks (631 hours).

Exhibit Dates: 6/77–Present.

Objectives: To prepare newly commissioned officers for duty assignment in chemical specialty.

Instruction: Topics include logistical subjects such as support shop operations, direct support supply/maintenance exercises and logistical assistance, and military subjects such as unit and organizational management, combined arms operation and tactical field training exercises. Chemical specialty subjects include technical aspects of chemical operations and defense, biological defense, chemical weapons employment, nuclear warfare, radiological defense, NBC material and maintenance and defense operations, and smoke and flame operations.

Credit Recommendation: Pending evaluation.

AR-1405-0091

ORDNANCE OFFICER BASIC MUNITIONS MATERIEL MANAGEMENT

Course Number: 4-9-C20-75A; 4-9-C20-75B.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD; Missile and Munitions School, Redstone Arsenal, AL.

Length: 11 weeks (688 hours).

Exhibit Dates: 6/77–Present.

Objectives: To prepare newly commissioned officers for duty assignment in munitions materiel management.

Instruction: Phase I training at Aberdeen Proving Ground includes logistical subjects such as support shop operations, direct support supply/maintenance exercises, and logistical assistance, and military subjects such as unit and organizational management, combined arms operation and tactical field training exercises. Phase II at Redstone Arsenal covers ammunition identification, functioning, use, safety precautions associated with firing and procedures for destruction.

Credit Recommendation: Pending evaluation.

AR-1405-0092

ORDNANCE OFFICER BASIC ARMAMENT MATERIEL MANAGEMENT

Course Number: 4-9-C20-76A.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 13 weeks (660 hours).

Exhibit Dates: 6/77–Present.

Objective: To prepare newly commissioned officers for duty assignment in armament materiel management.

Instruction: Topics include logistical subjects such as support shop operations, direct support supply/maintenance exercises and logistical assistance, and military subjects such as unit and organizational management, combined arms operation and tactical field training exercises. Armament materiel management specialty provides student with a working knowledge of small arms materiel in the current inventory to include description, characteristics, and principles of operation and functioning of major components and assemblies associated with small arms weapons; of equipment maintenance procedures and maintenance problems, their causes, and solutions; and of test and diagnostic equipment.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in management (1/78).

AR-1405-0093

ORDNANCE OFFICER BASIC TANK AND GROUND MOBILITY MATERIEL MANAGEMENT

Course Number: 4-9-C20-77A; 4-9-C20-77B; 4-9-C20-77C; 4-9-C20-77D.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 16 weeks (603 hours).

Exhibit Dates: 6/77–Present.

Objectives: To prepare newly commissioned officers for duty assignment in tank and ground mobility materiel management specialty.

Instruction: Topics include logistical subjects such as support shop operations, direct support supply/maintenance exercises and logistical assistance, and military subjects such as unit and organizational management, combined arms operation and tactical field training exercises. Tank and ground mobility materiel management subjects include topics to provide the student with general knowledge of the basic principles of design and operation of mechanical, electrical and hydraulic devices and components which are common to major items of military equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in automotive (1/78); in the upper-division baccalaureate category, 3 semester hours in management (1/78).

AR-1405-0094

ORDNANCE OFFICER ADVANCED MISSILE MATERIEL MANAGEMENT, PHASE II

Course Number: 4-9-C22-E.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 14 weeks (444-467 hours).

Exhibit Dates: 7/78–Present.

Objectives: To provide students with knowledge of missile management concepts, including nuclear munitions, research and development, test and evaluation, production and procurement, distribution, maintenance and supply, storage and disposal.

Instruction: Discussion of overall management perspective of missile systems, including introduction to weapon systems, stockpiling, and accountibility of nuclear weapons; missile support systems, including radar logistics, maintenance, and emergency procedures. Support organizations are discussed, including computer assisted maintenance simulation.

Credit Recommendation: No credit is recommended because of the limited, specialized nature of the course (8/79).

AR-1405-0095

COMBAT MISSILE MAINTENANCE (27-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED (USMMCS)

Course Number: 1-27-C42.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 10 weeks (324-334 hours).

Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 5/75–2/78.

Objectives: To provide enlisted personnel with knowledge of duties and supervisory skills required of a senior NCO in combat missile maintenance.

Instruction: *Version 1:* Provide knowledge of basic missile guidance, control, propulsion, radar, and support systems for various missile systems. Discussion of material management and maintenance of these systems. *Version 2:* Lectures and practical exercises in military subjects to include effective writing, effective speaking, administrative exercises, and management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in communications arts, 3 in maintenance management, and 2 in materials/supply handling and control (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills (6/79).

Related Occupation Codes: 27B; 27D; 27E; 27F; 27G; 27H.

AR-1405-0096

STANDARD ARMY INTERMEDIATE LEVEL SUPPLY SUBSYSTEM (SAILS) MATERIEL MANAGEMENT CORPS SUPPORT COMMAND (COSCOM)
(SAILS Materiel Management COSCOM)

Course Number: ALM-62W200.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (80 hours).

Exhibit Dates: 7/77–Present.

Objectives: To develop the operational skills of personnel assigned to positions at installations and Corps Support Commands (COSCOMs) within the automated environment of SAILS. Specific emphasis will be devoted to the day-to-day operations in the functional field of supply.

Instruction: This course covers the managerial and operational aspects of SAILS Level A/B operations at the installation materiel management activity. It includes multimedia and individualized instruction in card format I/O controls, requirements and excess determination, file description, ADP techniques, supply related financial reports and systems interface.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory managerial (3/78).

AR-1405-0099

ELECTRICAL/ELECTRONIC DEVICES MAINTENANCE (35-CMF) NONCOMMISSIONED (NCO) BASIC

Course Number: 1-352-C40.

Location: Engineer School, Ft. Belvoir, VA.

Length: 5 weeks (174 hours).

Exhibit Dates: 8/75–Present.

Objectives: To train electrical/electronic device maintenance personnel to supervise the management of repair and maintenance of electrical/electronic devices operations.

Instruction: Conferences and practical exercises in the management and supervision of maintenance and repair operations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in personnel management (9/79); in the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management, 2 in introduction to industrial management (9/79).

AR-1405-0100

PROFESSIONAL DEVELOPMENT WORKSHOP FOR LOGISTICS ASSISTANCE PERSONNEL

Course Number: ALM-66-0299.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 3/79–Present.

Objectives: Course, geared to individually professed needs, provides advanced training in integrated management systems.

Instruction: Course touches on leadership skills, development of human resources, awareness of business environment and action plan workshop.

Credit Recommendation: Pending evaluation.

AR-1405-0101

MANPOWER AND FORCE MANAGEMENT

Course Number: ALM-61-0444.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 3 weeks (105–106 hours).

Exhibit Dates: 10/78–Present.

Objectives: To develop and increase the understanding of military and civilian personnel in manpower and force management functions.

Instruction: Curriculum concentrates on manpower and force management functions. Subjects address fundamental aspects of force analysis, development, management, planning, programming, budgeting, allocating, and documenting.

Credit Recommendation: Pending evaluation.

AR-1405-0102

MANAGEMENT OF QUALITY FUNCTION

Course Number: ALM-34-0254; 8D-F18.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (69 hours).

Exhibit Dates: 10/78–Present.

Objectives: To provide a forum for the discussion, analysis, and investigation of the total quality assurance program or system relative to Defense Department materiel acquistion and management.

Instruction: Course presents Defense Department management concepts relative to quality/product assurance throughout the materiel life cycle.

Credit Recommendation: Pending evaluation.

AR-1405-0103

MAJOR ITEM MANAGEMENT

Course Number: None.

Location: Logistics Management School, Ft. Lee, VA.

Length: 2–3 weeks (98 hours).

Exhibit Dates: 7/79–Present.

Objectives: To develop and increase knowlege and understanding of materiel managers in the management of major items.

Instruction: Curriculum concentrates on materiel management functions. Special emphasis is on gross requirements planning and the distribution process utilizing such tools as existing data bases and financial management.

Credit Recommendation: Pending evaluation.

AR-1406-0001

FACULTY DEVELOPMENT

Course Number: 5K-F3; 520-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: 4 weeks (146–176 hours).

Exhibit Dates: *Version 1:* 8/75–Present. *Version 2:* 9/69–7/75.

Objectives: To train military personnel and civilians as instructors and supervisors of instructors.

Instruction: *Version 1:* Lectures, demonstrations and practical exercises in instructional principles and techniques including instructional objectives, test construction, student counseling, lesson plan preparations, and instructional technology. *Version 2:* Lectures in instructional methods, teaching aids, principles of learning, examination construction, counseling and evaluation of students, preparation of lesson plans, formulating lesson objectives, school organization and regulations, and management of the learning environment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in instructional methods, 1 in student counseling (8/79). *Version 2:* In the vocational certificate category, 4 semester hours in instructional methods (1/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in instructional methods (1/74); in the upper-division baccalaureate category, 2 semester hours in instructional methods (12/68).

AR-1406-0002

ARMY NATIONAL GUARD CAREER COUNSELING
(Career Counselor ARNG)

Course Number: 501-79D30-A.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 2 weeks (95 hours).

Exhibit Dates: 12/77–Present.

Objectives: To provide enlisted personnel with the knowledge, skills, and techniques needed to perform as military career counselors.

Instruction: Practical exercises and classroom instructions in elementary counseling and use of military information guides. Career counseling subjects include retention and interview counseling, career management, and communication skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in interviewing techniques (2/70).

Related Occupation Codes: 79D.

AR-1406-0004

PERSONNEL MANAGEMENT OFFICER
(Personnel Staff Officers)
(Personnel Resources Management)

Course Number: 7C-41A; 7C-2260; 7C-F3; 12-G-F1; 12-B-F1; 12-O-7.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 4–6 weeks (149–213 hours).

Exhibit Dates: 7/55–Present.

Objectives: To provide senior commissioned officers with a knowledge of personnel management principles and procedures.

Instruction: Lectures on manpower management, financial management, civilian personnel management and labor relations, military personnel management, community relations, management information systems, and data processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management (2/74); in the upper-division baccalaureate category, 3 semester hours in personnel management (12/68).

AR-1406-0005

PERSONNEL STAFF NONCOMMISSIONED OFFICER (NCO)

Course Number: 500-F1.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: 2 weeks (73 hours).
Exhibit Dates: 8/72–Present.
Objectives: To train enlisted personnel to serve as advisors to brigade and battalion commanders on personnel matters.
Instruction: Lectures on the functions and procedures in personnel administration, record keeping, and control/information systems.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/74).
Related Occupation Codes: 71H.

AR-1406-0006

Advanced Personnel Management
Enlisted

Course Number: 12-E-2.
Location: Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: 5 weeks (175–186 hours).
Exhibit Dates: 7/55–12/68.
Objectives: To provide supervisors with advanced training in personnel management.
Instruction: Lectures and practical experience in personnel management systems and organization functions, including command and staff organizational procedures and a simulated play to develop proficiency in theory application.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management (2/74); in the upper-division baccalaureate category, 2 semester hours in personnel management (2/74).

AR-1406-0007

Military Personnel
Officer/Personnel Technician
(Military Personnel Officer/Unit Personnel Technician)
(Military Personnel Officer)

Course Number: *All Versions:* 7C-2200; 7C-711A0; 7C-711A. *Version 1:* 7C-42A. *Version 2:* 12-B-2200; 12-B-711A; 12-B-F8.
Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: *Version 1:* 5 weeks (185–188 hours). *Version 2 :* 5 weeks (175–194 hours).
Exhibit Dates: *Version 1:* 6/74–Present. *Version 2:* 10/58–5/74.
Objectives: To train commissioned and warrant officers as personnel administrators.
Instruction: *Version 1:* Lectures and practical exercises in personnel administration and records management and reporting procedures. *Version 2:* Lectures and practical exercises in organization and management, personnel administration, payrolls, and records management and reporting procedures.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management (3/75). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management (2/74); in the upper-division baccalaureate category, 2 semester hours in personnel management (12/68).
Related Occupation Codes: 711A; 713A.

AR-1406-0008

Recruiting, Reenlistment and
Induction Officer
(Recruiting and Reenlistment Officer)

Course Number: 7C-2310; 12-A-2310D.
Location: Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: 3 weeks (107–117 hours).
Exhibit Dates: 3/59–12/68.
Objectives: To train commissioned officers to recruit personnel and handle reenlistment procedures.
Instruction: Lectures in the recruitment and reenlistment of personnel. Topics include fundamentals of military personnel procurement, principles and techniques of recruiting, effective speaking, and recruiting management.
Credit Recommendation: In the vocational certificate category, 1 semester hour in salesmanship (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship (6/74).

AR-1406-0009

OH-13 Instructor Pilot Qualification

Course Number: 2C-F17.
Location: Aviation School, Ft. Rucker, AL.
Length: 5 weeks (178 hours).
Exhibit Dates: 8/68–Present.
Objectives: To train commissioned and warrant officer aviators as OH-13 instructor pilots.
Instruction: Lectures and practical exercises in OH-13 instructor pilot qualification, including MOI flight training, MOI academic subjects, refresher and qualification flight training, effective teaching methods, helicopter aerodynamics, maintenance subjects, autorotations, OH-13 flight controls and main rotor heads and blades, inspection, intermediate and advanced maneuvers, principles of flight instruction, engine operation, and fuel and oil system.
Credit Recommendation: In the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).
Related Occupation Codes: 160A; 103A.

AR-1406-0010

Adjutant General Officer
Orientation

Course Number: 7-12-C21.
Location: Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: 5 weeks (194 hours).
Exhibit Dates: 8/67–Present.
Objectives: To train commissioned officers to be adjutant general officers.
Instruction: Lectures in administrative and special services, personnel management, data processing, organization, and command and staff procedures.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in personnel management (12/68).

AR-1406-0011

Personnel Records Specialist

Course Number: 500-75D20.
Location: Army Training Center, Ft. Jackson, SC.
Length: 7 weeks (211 hours).
Exhibit Dates: 3/76–Present.
Objectives: To train personnel to maintain personnel records.
Instruction: Conferences and practical exercises in personnel records maintenance through such source documents as courts-martial orders, orders, efficiency reports, suspension of favorable personnel actions, requested and completed personnel actions; in- and out-processing of personnel records; and the initiation, use, and updating of standard installation/division personnel system (SIDPERS) documentation.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).
Related Occupation Codes: 09B; 09E; 75B; 75D.

AR-1406-0012

Recruiting Indoctrination—WAC
Officer

Course Number: 12-A-2310B; 12-O-17.
Location: Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: 3 weeks (105–121 hours).
Exhibit Dates: 7/55–12/68.
Objectives: To train officers of the Women's Army Corps to recruit and interview personnel for enlistment into the armed services.
Instruction: Lectures and practical exercises in the recruitment of new personnel into the armed services. Course includes recruiting techniques and effective speaking.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-1406-0013

Recruiting
(Recruiting, Enlisted)

Course Number: 12-R-075.7A; 12-E-7.
Location: Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: 3 weeks (112–114 hours).
Exhibit Dates: 10/56–10/58.
Objectives: To train recruiting specialists in the techniques and procedures of recruiting and in the management of a recruiting activity.
Instruction: Lectures and practical exercises in the techniques and procedures of recruiting and in the management of a recruiting activity, including eligibility, opportunities, and benefits; recruiting salesmanship; effective speaking; principles and techniques of supervision; sales psychology; radio and press copywriting; research; and market analysis.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-1406-0014

Recruiting Management Officer

Course Number: 12-A-2310A; 12-O-6.
Location: Adjutant General's School, Ft. Benjamin Harrison, IN.
Length: 3–4 weeks (112–140 hours).
Exhibit Dates: 10/55–12/68.
Objectives: To train commissioned officers to perform as recruiting and induction officers.
Instruction: Lectures and practical exercises in recruiting techniques and procedures and in the management of a recruiting activity, including recruiting prerequisites; product, market, and prospect needs; communication aids and sales tools; radio and press copywriting; effective speaking; recruiting management; selection of recruiting personnel; supervising and training the sales force; and qualitative aspects of procurement.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-1406-0015

MILITARY PERSONNEL RECRUITING
WAC/ANC OFFICER

Course Number: 7C-2310-B.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (114 hours).

Exhibit Dates: 4/68–Present.

Objectives: To train female commissioned officers to recruit candidates for the armed services.

Instruction: Lectures and practical exercises in the recruitment of candidates for the armed services. Course includes fundamentals of personnel procurement, principles and techniques of recruiting, effective speaking and writing, and sales management.

Credit Recommendation: In the vocational certificate category, 1 semester hour in salesmanship (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship (7/74).

AR-1406-0016

PERSONNEL AND ADMINISTRATION
(RESERVE COMPONENTS)

Course Number: 7C-F5; 520-F1.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (111–112 hours).

Exhibit Dates: 7/66–Present.

Objectives: To train enlisted personnel in personnel administration.

Instruction: Lectures and practical exercises in personnel administration, including administration fundamentals, enlisted evaluation system, personnel records, service and training obligations, pay and allowances, officer and enlisted qualification, appointments and reductions, data processing, publications, screening, and retirement point records.

Credit Recommendation: In the vocational certificate category, 1 semester hour in personnel management (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management (7/74).

AR-1406-0017

ARMY CAREER COUNSELING

Course Number: 12-D-2310C; 12-D-075.7B; 12-OE-26.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (132 hours).

Exhibit Dates: 2/57–10/58.

Objectives: To train commissioned officers and enlisted personnel to reenlist personnel into the armed services.

Instruction: Lectures and practical exercises in military career counseling and reenlistment procedures. Course includes a description of eligibility, opportunities, and benefits in the armed services; principles of human relations; oral communication; and interviewing and counseling techniques.

Credit Recommendation: In the vocational certificate category, 1 semester hour in speech communication, 2 in guidance and counseling (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in speech communication, 2 in guidance and counseling (8/74); in the upper-division baccalaureate category, 1 semester hour in speech communication, 2 in guidance and counseling (8/74).

AR-1406-0018

ASSOCIATE ADJUTANT GENERAL OFFICER
ADVANCED

Course Number: 12-A-C5; 12-O-4.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 12 weeks (428–470 hours).

Exhibit Dates: 9/55–6/60.

Objectives: To train commissioned officers in the duties and responsibilities appropriate to field grade Adjutant General's Corps officers.

Instruction: Lectures and practical exercises in the duties and responsibilities of field grade Adjutant General's Corps officers, including professional development and orientation; combat support and arms; special types of operations; foreign armies; command and staff organization, principles, and procedures; general staff functions and techniques; and Adjutant General's Corps functions and operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in personnel management (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management (8/74); in the upper-division baccalaureate category, 3 semester hours in personnel management (12/68).

AR-1406-0019

PERSONNEL ADMINISTRATION SPECIALIST

Course Number: 12-R-716.1.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 8 weeks (280 hours). *Version 2:* 4 weeks (135–139 hours).

Exhibit Dates: *Version 1:* 9/62–12/68. *Version 2:* 11/58–8/62.

Objectives: To train enlisted personnel to perform the duties of personnel administration specialists.

Instruction: Lectures and practical exercises in the duties of a personnel administration specialists. Course includes administrative functions, personnel administration, personnel records, and personnel compensation.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in typing (7/74). *Version 2:* Credit is not recommended because of the military-specific nature of the course (7/74).

AR-1406-0020

1. ARMY REENLISTMENT
   (Army Recruiting and Career Counseling)
2. ARMY RECRUITING AND CAREER COUNSELING

Course Number: *All Versions:* 501-00E40. *Version 1:* 501-79D30. *Version 2:* 501-075.6; 12-R-075.6.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 4-5 weeks (133–203 hours). *Version 2:* 3-5 weeks (101–193 hours).

Exhibit Dates: *Version 1:* 2/70–Present. *Version 2:* 11/58–1/70.

Objectives: To train enlisted personnel to manage a recruiting and reenlistment office.

Instruction: *All Versions:* Lectures and practical exercises in the management of a recruiting and reenlistment office. Course includes principles and techniques of recruiting and reenlistment, and effective speaking. *Version 1:* Topics include interviewing and sales techniques.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in sales techniques (3/75). *Version 2:* Credit is not recommended because of the limited technical nature of the course (12/68).

Related Occupation Codes: 00E.

AR-1406-0021

MANPOWER CONTROL OFFICER

Course Number: *All Versions:* 12-G-2265. *Version 1:* 7-C-2265. *Version 2:* 12-O-8.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 3-4 weeks (111–154 hours). *Version 2:* 5-6 weeks (193–210 hours).

Exhibit Dates: *Version 1:* 8/58–12/68. *Version 2:* 9/55–7/58.

Objectives: To provide selected personnel with working knowledge of the principles and procedures employed in the control, distribution, and utilization of manpower at all levels of command.

Instruction: Course covers manpower management, controls, and survey techniques.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in manpower management (12/68). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in manpower management (12/68).

AR-1406-0022

SIDPERS MANAGEMENT

Course Number: 531-F6; 7E-F24.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 2 weeks (73 hours).

Exhibit Dates: 3/74–Present.

Objectives: To train personnel in the use of the Army's automated personnel system.

Instruction: Classroom presentation and drills in the use of manuals basic to the Army personnel system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/75).

Related Occupation Codes: 74C.

AR-1406-0023

PERSONNEL MANAGEMENT SPECIALIST

Course Number: 500-75C20.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 8 weeks (268 hours).

Exhibit Dates: 10/74–Present.

Objectives: To provide instruction in personnel record keeping.

Instruction: Lectures and practical exercises in the techniques of record keeping, requisition, transfer, classification, utilization, and typewriting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in personnel records, clerical procedures and additional credit in typewriting on the basis of institutional evaluation (3/75).

Related Occupation Codes: 75B; 75C.

AR-1406-0024

PERSONNEL SENIOR SERGEANT

Course Number: 500-75Z40.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 5 weeks (171–188 hours).

Exhibit Dates: 1/74–Present.

Objectives: To provide personnel with the skills and knowledge required to perform personnel management functions.

Instruction: Instruction includes personnel management techniques and procedures related to military records and evaluations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management (3/75).

Related Occupation Codes: 75C; 75D; 75E; 75Z.

AR-1406-0025

Administrative (AG-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 5-AG-C42A.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 7-10 weeks (241 ND 359 hours).

Exhibit Dates: *Version 1:* 6/75-Present. *Version 2:* 9/73-5/75.

Objectives: To provide selected personnel with the skills and knowledge to perform administrative and clerical duties in adjutant general offices.

Instruction: *Version 1:* Lectures and practical exercises in military administration including personnel procedures administrative service and unit administration. *Version 2:* Instruction includes manpower management, leadership, data processing, communications, and personnel management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in general office practices (2/80). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills and 1 in principles of management (3/75); in the upper-division baccalaureate category, 3 semester hours in personnel management (3/75).

Related Occupation Codes: 71C; 71D; 71E; 71F; 71L; 71M; 71Q; 75Z; 71R.

AR-1406-0026

Personnel Actions Specialist

Course Number: 500-75E20.

Location: Army Training Center, Ft. Jackson, SC.

Length: 7 weeks (211 hours).

Exhibit Dates: 2/76-Present.

Objectives: To train students to prepare, process, and review correspondence relating to personnel matters.

Instruction: Conferences and practical experience in the preparation, processing, suspension, and review of correspondence pertaining to medical examinations, reenlistments, discharges, separations, suspension of favorable personnel actions, military/dependent ID cards, and dependent travel and affairs; the use of personnel records and standard installation/division personnel system (SIDPERS) documentation, and proper interview techniques to accomplish such actions.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

Related Occupation Codes: 09B; 09E; 75B; 75E.

AR-1406-0027

Recruiter

Course Number: 501-00E40; 501-00E20.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 4-5 weeks (148-195 hours).

Exhibit Dates: 10/76-Present.

Objectives: To provide enlisted personnel with the skills and techniques necessary to perform effectively as military recruiters.

Instruction: Conference instruction and practical exercises in counseling fundamentals, sales interview, telephone technique, selling techniques, enlistment eligibility, waivers, and options, sales communication, and military recruiting materials.

Credit Recommendation: In the vocational certificate category, 2 semester hours in sales techniques (1/78).

Related Occupation Codes: OOE.

AR-1406-0028

Career Counselor

Course Number: 501-00E40-A.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 4 weeks (146 hours).

Exhibit Dates: 3/77-Present.

Objectives: To provide enlisted personnel with the skills, techniques and basic technical knowledge required to perform as career counselors. techniques, and knowledge to serve as career counselors.

Instruction: Topics include reenlistment eligibility, interview techniques, career counselor exercises and effective listening.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in interviewing techniques (1/78).

Related Occupation Codes: 00E.

AR-1406-0029

Criterion-Referenced Instruction (CRI) Workshop

Course Number: TDI-101.

Location: Intelligence School, Ft. Devens, MA; Defense Language Institute, Monterey, CA; Air Defense School, Ft. Bliss, TX; Sergeants Major Academy, Ft. Bliss, TX; Engineer School, Ft. Belvoir, VA; Infantry School, Ft. Benning, GA; Intelligence School, Ft. Huachuca, AZ; Military Police School, Ft. McClellan, AL; Missile and Munitions School, Redstone Arsenal, AL; Quartermaster School, Ft. Lee, VA; Signal School, Ft. Gordon, GA; Transportation School, Ft. Eustis, VA; Aviation School, Ft. Rucker, AL; Institute for Military Assistance, Ft. Bragg, NC; 7th Army, Vilseck, Germany; Training Center Engineer, Ft. Leonard Wood, MO.

Length: Self-paced 3 weeks (120 hours).

Exhibit Dates: 8/77-Present.

Objectives: Course is designed for U.S. Army officers, enlisted personnel and civilian employees having responsibility for analyzing jobs, designing or developing instruction, teaching, or evaluating service school education/training programs.

Instruction: The course focuses on developing and/or improving the skills required to develop an effective instructional program and emphasizes skills needed for analysis, design and implementation. The course is conducted in a self-paced workshop format in a 3-week, 120-hour design and provides learning materials, multi-media instruction, and resource persons to enrollees. Some students prepare a research paper.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in instructional design (8/77); in the graduate degree category, graduate credit may be considered on the basis of individual institutional policy and evaluation (8/77).

AR-1406-0030

Reserve Components Recruiter
(Reserve Components Recruiting and Retention Training)

Course Number: *Version 1:* 7C-F11; 501-00E30RC. *Version 2:* 501-00E40B.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 3 weeks (111 hours). *Version 2:* 2 weeks (57 hours).

Exhibit Dates: *Version 1:* 1/79-Present. *Version 2:* 4/75-12/78.

Objectives: To provide unit recruiting and retention personnel with a knowledge of the techniques and procedures of obtaining new accessions and for retaining qualified members in the Reserve Components.

Instruction: Classroom instruction and practical exercises in military benefits and opportunities, eligibility and forms, selections and training of recruiting personnel, and interview training.

Credit Recommendation: In the vocational certificate category, 1 semester hour in sales techniques (2/78).

Related Occupation Codes: 00E.

AR-1406-0031

Antenna Installer Specialist by Correspondence

Course Number: J41.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80-Present.

Objectives: To teach the supervision of personnel engaged in antenna installation, maintenance, and rehabilitation.

Instruction: Course provides instruction in methods of instruction, training management, Army publications, military leadership, and file management.

Credit Recommendation: Credit is not recommended because of the limited nature of the training (6/79).

Related Occupation Codes: 36D.

AR-1406-0032

Recruiting Station Commanders

Course Number: 501-F2.

Location: Army Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 3 weeks (114 hours).

Exhibit Dates: 5/79-Present.

Objectives: To provide selected enlisted personnel with the skills to perform as supervisor of a recruiting station.

Instruction: Lectures and practical exercises in the management of a military recruiting office including training and motivation of subordinates, market analysis, advertising and sales promotion.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in sales techniques (2/80).

AR-1406-0097

Standard Army Intermediate Level Supply Subsystem (SAILS) Materiel Management
(SAILS Materiel Management).

Course Number: ALM-62W100.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (80 hours).

Exhibit Dates: 7/77-Present.

Objectives: To develop the operational skills of personnel assigned to positions at installations functioning within the automated environment of SAILS. Specific emphasis will be devoted to the day-to-day operations in the functional field of supply.

Instruction: This course covers the managerial and operational aspects of SAILS Level A/B at the installation materiel management activity. It includes multimedia and individualized instruction in card format I/O controls, requirements and excess determination, file description, ADP techniques, supply related financial reports and systems interface.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory management (3/78).

AR-1406-0098

Standard Army Intermediate Level Supply Subsystem (SAILS) Management
(SAILS Management).

Course Number: ALM-62-0317.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 1/77–Present.

Objectives: To provide commissioned and noncommissioned officers and civilian managers with training in the Standard Army Intermediate Level Supply Subsystem at the installation or Corps support command levels.

Instruction: Lectures, seminars and practical exercises in the standard supply system. Includes the interpretation and analysis of various supply reports and techniques for monitoring system parameters. Provides procedures to cope with system operating problems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory management (3/78).

AR-1407-0001

Stenography

Course Number: 511-71C10A; 511-71C20A; 12-R-712.1; 12-E-8.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN; Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 15–19 weeks (555–672 hours).

Exhibit Dates: 6/55–Present.

Objectives: To train enlisted personnel to achieve a proficiency level of 90 w.p.m. in shorthand dictation and 45 w.p.m. in transcription.

Instruction: Practical exercises in shorthand, typing, grammar and usage, and administrative procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in shorthand, 3 in typing, 3 in office procedures (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in shorthand, 3 in typing, 3 in office procedures (3/74); in the upper-division baccalaureate category, 6 semester hours in shorthand, 3 in typing, 3 in office procedures (3/74).

Related Occupation Codes: 71B; 71C; 09B.

AR-1407-0002

Stenography—WAC

Course Number: 511-71C20B, 35-E-4.

Location: Women's Army Corps School, Ft. McClellan, AL.

Length: 4–12 weeks (84–436 hours).

Exhibit Dates: 9/55–12/68.

Objectives: To train enlisted personnel to take dictation at a minimum rate of 90 w.p.m., to type at a minimum rate of 45 w.p.m., and to perform related tasks in a military office.

Instruction: Lectures and practical exercises in shorthand, typing, English grammar, filing, correspondence, and military procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in typing, 3 in shorthand, and 3 in office practice laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in shorthand, and 3 in office practice laboratory (3/74); in the upper-division baccalaureate category, 3 semester hours in typing, 3 in shorthand, and 3 in office practice laboratory (3/74).

Related Occupation Codes: 71C.

AR-1408-0001

1. Planning, Programming and Budgeting Systems
2. Planning, Programming and Budgeting Systems
3. Planning, Programming and Budgeting Systems
4. Programming and Budgeting
(Financial Management—Budget)

Course Number: *All Versions:* 7D-6302; 541-F2; 541-F2. *Version 1:* 7D-45B. *Version 2:* 3R-OPMS-45B. *Version 4:* 7D-F5; 14-K-F3; 14-I-F3; 14-O-10.

Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 3:* Finance School, Ft. Benjamin Harrison, IN. *Version 4:* Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 4 weeks (143 hours). *Version 2:* 4 weeks (152 hours). *Version 3:* 4 weeks (136 hours). *Version 4:* 4–5 weeks (143–189 hours).

Exhibit Dates: *Version 1:* 11/79–Present. *Version 2:* 10/77–9/77. *Version 3:* 3/72–2/72. *Version 4:* 8/56–8/56.

Objectives: To provide a working knowledge of planning, programming and budgeting principles, procedures and techniques.

Instruction: *Version 1:* Lectures in basic principles of budget planning and programming including resource management, fiscal rules, control of funds, stock fund concepts, and statistical techniques. *Version 2:* Lectures in the basic principles of financial management, including programming and budgeting principles and applications, expense accounting, stock funds, control of funds, and applied statistics. Includes statistical and accounting analysis toward budget formulation and execution. *Version 3:* Lectures in the basic principles of financial management, including programming and budgeting principles and applications, expense ac accounting, stock funds, control of funds, and applied statistics. *Version 4:* Lectures in the basic principles of financial management, in including programming and budgeting principles and applications, expense accounting, stock funds, control of funds, and applied statistics.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in statistical analysis (2/80); in the upper-division baccalaureate category, 2 semester hours in budgeting (2/80). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in statistical analysis and 1 in accounting principles (2/78); in the upper-division baccalaureate category, 2 semester hours in financial management (2/78). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in programming or budgeting (2/74); in the upper-division baccalaureate category, 2 semester hours in programming or budgeting (2/74). *Version 4:* In the lower-division baccalaureate/associate degree category, 3 semester hours in programming or budgeting (2/74); in the upper-division baccalaureate category, 3 semester hours in budgeting (12/68).

AR-1408-0002

1. Finance (FI-CMF) Noncommissioned Officer (NCO) Advanced
2. Finance (FI-CMF) Noncommissioned Officer (NCO) Advanced
(Finance Operations Noncommissioned Officer (NCO))

Course Number: *Version 1:* 5-FI-C42. *Version 2:* 542-FI.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 10–12 weeks (361–418 hours). *Version 2:* 9 weeks (310–315 hours).

Exhibit Dates: *Version 1:* 2/73–Present. *Version 2:* 5/65–1/73.

Objectives: To provide enlisted personnel with training in financial management, enabling them to function as financial and accounting supervisors.

Instruction: Practical application of basic accounting concepts of control, data processing tools, and principles of finance with limited emphasis on management fundamentals.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in financial management (2/78). *Version 2:* In the vocational certificate category, 3 semester hours in financial management (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in financial management (2/74); in the upper-division baccalaureate category, 3 semester hours in financial management (12/68).

Related Occupation Codes: 73C; 73D.

AR-1408-0003

United States Army Sergeants Major

Course Number: 1-250-C5.

Location: Sergeants Major Academy, Ft. Bliss, TX.

Length: 22 weeks (650–736 hours).

Exhibit Dates: 11/72–Present.

Objectives: To provide senior Army sergeants with a basic foundation in international and national affairs, enabling them to qualify as senior advisors to higher commands.

Instruction: Lectures on world affairs, modern history, U.S. military strategy and foreign policy, military management principles and systems, human relations, and oral and written presentations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in management, 6 in psychology/sociology, 6 in international affairs (2/74); in the upper-division baccalaureate category, 6 semester hours in management, 6 in psychology/sociology, 6 in international affairs (2/74).

AR-1408-0004

Recreation Services (SS-CMF) Noncommissioned Officer (NCO) Advanced
(Special Services (SS-CMF) Noncommissioned Officer (NCO) Advanced)

Course Number: 5-SS-C42.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 10 weeks (329-342 hours).

Exhibit Dates: 4/73-6/75.

Objectives: To provide selected enlisted personnel with a working knowledge of special services duties performed by senior noncommissioned officers.

Instruction: Lectures and practical exercises in leadership, management, manpower, data processing, personnel management, and military operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations/personnel administration (2/74).

Related Occupation Codes: 03B; 03C; 03D; 03Z.

AR-1408-0005

Machine Accounting Specialist

Course Number: 32-5-74D20.

Location: Security Agency School, Ft. Devens, MA.

Length: 11 weeks (379 hours).

Exhibit Dates: 1/65-Present.

Objectives: To provide enlisted personnel with a working knowledge of electrical accounting machines and a general knowledge of data processing.

Instruction: Lectures and practical exercises in general data processing; automatic data processing; electrical accounting machines, including card punch, sorter, collator, document originating machine, and accounting machine.

Credit Recommendation: In the vocational certificate category, 4 semester hours in data processing or machine accounting (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in data processing or machine accounting (2/74); in the upper-division baccalaureate category, 3 semester hours in data processing or machine accounting (2/74).

Related Occupation Codes: 74D.

AR-1408-0006

Chaplain Enlisted Assistant
Technical Training

Course Number: 561-71M20.

Location: *Version 1:* Chaplain School, Ft. Wadsworth, NY. *Version 2 :* Chaplain School, Ft. Hamilton, NY.

Length: *Version 1:* 8 weeks (275 hours). *Version 2:* 4 weeks (140 hours).

Exhibit Dates: *Version 1:* 10/74-Present. *Version 2:* 10/70-9/74.

Objectives: To provide enlisted personnel with the necessary technical skills to function as chaplain assistants.

Instruction: *All Versions:* Lectures on office procedures, equipment supply and maintenance; principles of religious support, administration of chapel funds. *Version 1:* Offers greater emphasis on office practices.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in office practice and credit in typing on the basis of proficiency evaluation (11/77). *Version 2:* In the lower-division baccalaureate/associate degree category, credit in church administration on the basis of institutional examination (2/74).

Related Occupation Codes: 70A; 71M.

AR-1408-0007

Personnel Management Specialist

Course Number: 500-71H30; 12-R-716.2; 500-71K20; 12-R-716.3.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3-6 weeks (112-220 hours).

Exhibit Dates: 2/58-Present.

Objectives: To provide personnel specialists with a working knowledge of the principles, functions, and procedures of personnel management.

Instruction: Lectures in personnel procedures and devices, maintenance of personnel records and control devices, and evaluation and interpretation of personnel functions.

Credit Recommendation: In the vocational certificate category, 4 semester hours in personnel management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management (2/74); in the upper-division baccalaureate category, 2 semester hours in personnel management (12/68).

Related Occupation Codes: 71H.

AR-1408-0008

Advanced Army Administration

Course Number: 12-E-5.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 8 weeks (280-308 hours).

Exhibit Dates: 7/55-12/68.

Objectives: To train enlisted personnel to supervise administrative and clerical operations in a military headquarters or office.

Instruction: Lectures and practical exercises in records administration, management, filing, personnel administration, and problem solving.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration (2/74); in the upper-division baccalaureate category, 3 semester hours in office administration (12/68).

AR-1408-0009

Army/Air Force Exchange Service
Executive Development

Course Number: 8F-F1.

Location: Quartermaster School, Ft. Lee, VA.

Length: 3 weeks (116-124 hours).

Exhibit Dates: 7/65-12/68.

Objectives: To provide commissioned officers and civilian personnel of the Army/Air Force Exchange Service with training in advanced management.

Instruction: Lectures on general management, communication, creative problem solving, personnel, retail management, and research.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in retail management (2/74); in the upper-division baccalaureate category, 2 semester hours in business administration (12/68).

AR-1408-0010

Army-Air Force Exchange Operations
(Army Exchange Operations)

Course Number: 823-F1; 8F-4210; 10-G-4210; 10-A-4210; 10-O-21.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4-6 weeks (162-211 hours).

Exhibit Dates: 6/55-Present.

Objectives: To train commissioned officers, noncommissioned officers, and civilians to manage and operate installation exchanges.

Instruction: Lectures and practical exercises in management, exchange operation procedures, financial management, and food operations procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in business retail management (2/74); in the upper-division baccalaureate category, 3 semester hours in business retail management (12/68).

AR-1408-0011

Management Review and Analysis
(Techniques of Review and Analysis)

Course Number: 7D-F4; 541-F1; 14-K-F1; 14-I-F1; 14-O-7.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (95-110 hours).

Exhibit Dates: 1/55-Present.

Objectives: To provide commissioned officers and civilian personnel with a basic knowledge of the principles and procedures of review and analysis as applied to organizational management.

Instruction: Lectures in the fundamentals of review and analysis, a survey of budgeting techniques, and review and analysis applied to budgeting techniques.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in business management (12/68).

AR-1408-0012

Army Project Manager

Course Number: 8A-F2.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 3 weeks (113 hours).

Exhibit Dates: 6/66-12/68.

Objectives: To provide officer and civilian executives in project management offices with training in Army project management.

Instruction: Lectures and practical exercises in organization and staffing of project management offices; management of procurement, material, and financing; procurement law; and value analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in project management (2/74); in the upper-division baccalaureate category, 2 semester hours in business administration (12/68).

AR-1408-0013

Ward Administration and Supervision

Course Number: 8-O-41.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 22 weeks (713 hours).

Exhibit Dates: *Version 1:* 3/56-12/68. *Version 2:* 4/54-2/56.

Objectives: To provide Nurse Corps officers with basic knowledge of the duties and responsibilities of head nurses and nursing service supervisors in clinical units.

Instruction: Lectures and practical experience in clinical nursing unit administration, including personnel management, medical records, human relations, statistics, dental education and training, aeromedical evacuation procedures, clinical teaching fundamentals, preventive medicine, nursing service counseling and guidance, and familiarization with basic psychology and neuropsychiatry.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in institutional management, 3 in nursing administration, 3 in personnel management, 3 in oral and written communication, and 2 in abnormal psychology (12/68). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in institutional management, 2 in nursing administration, 2 in personnel management, 3 in oral and written communication, and 2 in abnormal psychology (12/68).

AR-1408-0014

1. Adjutant General Officer Basic
   (Personnel Administration Officer Basic)
2. Adjutant General Officer Basic
   (Adjutant General Officer Orientation)

Course Number: *All Versions:* 7-12-C20-42A; 7-12-C20. *Version 2:* 12-A-C20; 12-A-C1; 12-O-A.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 8–11 weeks (310–387 hours). *Version 2:* 3/79 weeks (296–384 hours).

Exhibit Dates: *Version 1:* 4/75–Present. *Version 2:* 8/55–3/75.

Objectives: To train commissioned officers to perform personnel functions.

Instruction: *All Versions:* Lectures and practical exercises in personnel functions, including personnel activities and management, administrative services, postal services, military subjects and operations fundamentals, and special services. *Version 2:* Includes data processing, and additional hours in national defense organization, oral and written communications, combined arms, various types of warfare, signal communications, and other military subjects.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in personnel management and additional credit in advanced military science at institutions which regularly grant such credit (6/75). *Version 2:* In the vocational certificate category, 2 semester hours in personnel management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management (6/74); in the upper-division baccalaureate category, 2 semester hours in personnel management and credit in advanced military science at institutions which regularly offer such credit (12/68).

AR-1408-0015

1. Medical Department Officer Basic
2. Medical Service Corps Officer Orientation
   (Medical Service Corps Officer Basic)

Course Number: *Version 1:* 6-8-C20. *Version 2:* 8-A-C20B; 8-A-C1B; 8-O-33.

Location: *All Versions:* Medical Field Service School, Ft. Sam Houston, TX. *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 2–9 weeks (63–320 hours). *Version 2:* 1–16 weeks (345–576 hours).

Exhibit Dates: *Version 1:* 1/68–Present. *Version 2:* 10/54–12/67.

Objectives: To provide newly commissioned medical officers with training in medical service organization and administrative procedures.

Instruction: *All Versions:* Lectures and practical exercises in basic medical service administration. *Version 1:* Topics include orientation subjects specific to the various corps of the Army Medical Service. *Version 2:* Topics include organization, personnel management, medical records and reports, supply procedures, emergency medical care, casualty-handling methods and procedures, casualty evacuation planning, preventive medicine, and familiarization with the nurse corps, veterinary service, and neuropsychiatry.

Credit Recommendation: *Version 1:* No credit because of the military nature of the course (6/75). *Version 2:* In the vocational certificate category, 2 semester hours in business organization and management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business organization and management (2/74); in the upper-division baccalaureate category, 2 semester hours in business organization and management (12/68).

AR-1408-0016

Army Medical Service Company Officer

Course Number: 8-A-C2; 8-O-1.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 22–26 weeks (699–1004 hours).

Exhibit Dates: 7/54–12/68.

Objectives: To provide officers with the knowledge and skills necessary to perform as company grade medical service corps officers.

Instruction: Lectures in medical service organization and administration, including personnel management; human relations; financial management; medical and military law; medical supply procedures; field medical service organization; hospital planning, construction, and maintenance; preventive medicine; and sanitation and insect and rodent control.

Credit Recommendation: In the vocational certificate category, 5 semester hours in business organization, 2 in hygiene or first aid (2/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in business organization, 2 in hygiene or first aid (2/74); in the upper-division baccalaureate category, 5 semester hours in business organization, 2 in hygiene or first aid (12/68).

AR-1408-0017

Central Office Supervision

Course Number: 11-R-333.6; 11-E-19.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 19 weeks (698 hours).

Exhibit Dates: 6/56–12/68.

Objectives: To train selected personnel in the operation, characteristics, and control of communications facilities.

Instruction: Practical experience in radio communications, switchboards, teletypewriters, and plant operations.

Credit Recommendation: Credit is not recommended because of the military nature of the course (3/74).

AR-1408-0018

Associate Medical Service Corps Officer Career
(Associate Army Medical Service Officer Advanced)
(Army Associate Medical Service Officer Advanced)

Course Number: 8-A-C5; 8-O-4.

Location: Medical Service School, Ft. Sam Houston, TX.

Length: 15–17 weeks (526–624 hours).

Exhibit Dates: 7/54–12/68.

Objectives: To provide medical service officers with supplemental or refresher training in the duties and responsibilities of commanders and staff officers.

Instruction: Lectures on the administrative duties of medical service commanders and staff officers, including hospital organization; problem-solving principles and methods; financial management; military and medical law; medical records and reports; personnel management; field medical service organization and operation; heavy casualty management; familiarization with neuropsychiatry, veterinary service, and preventive medicine; and hospital plant planning principles and standards.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management (2/74); in the upper-division baccalaureate category, 4 semester hours in business organization and management (12/68).

AR-1408-0019

Air Defense Artillery Officer Advanced

Course Number: 2 44-C22.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 26 weeks (895 hours). *Version 2:* 36 weeks (1190 hours). *Version 3:* 34–37 weeks (1101–1311 hours).

Exhibit Dates: *Version 1:* 8/75–Present. *Version 2:* 10/74–7/75. *Version 3:* 4/68–9/74.

Objectives: To train air defense artillery officers for command and staff duties in air defense battalions and brigades.

Instruction: *All Versions:* Lectures and practical experience in automatic data processing introduction; flow charting; basic language programming; financial management systems; maintenance systems; quality assurance and control; nuclear, biological, and chemical weapons employment; Nike and Hawk air defense systems characteristics and capabilities; air defense tactics; and elective in two of the following: automatic data processing, communicative arts, logistics management, electronics, or insurgent warfare. *Version 1:* This version does not include the electives program. Lectures on overview of leadership and motivation principles; lectures on fundamentals of weapons defense and combat operations concepts; introduction to tactics and maneuver operations. Course includes electronics and warfare phases on selected specialized weapons.

Credit Recommendation: *All Versions:* Credit is not recommended because of the military-specific nature of the course (8/77). *Version 2:* Credit in the subject area covered in the electives program on the basic of institutional evaluation (6/75). *Version 3:* In the upper-division baccalaureate category, 6 semester hours in business organization and management, and additional credit for the electives program on the basis of institutional evaluation (12/68).

AR-1408-0020

Communications Operations (CO-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 5-CO-C42A.

Location: Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA.

Length: 10–12 weeks (369–423 hours).

Exhibit Dates: 6/73–Present.

Objectives: To train enlisted personnel in personnel management and communications operations.

Instruction: Lectures and practical exercises in advanced educational development, military correspondence, unit administration, and personnel management and administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in English composition, 1 in speech, 1 in psychology, 2 in personnel management and administration (5/74); in the upper-division baccalaureate category, 1 semester hour in English composition, 1 in speech, 1 in psychology, and 2 in personnel management and administration (5/74).

Related Occupation Codes: 05B; 05C; 05F; 72B; 72C; 72F; 72H.

AR-1408-0021

Administration (AG-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 5-AG-C40A.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 7–10 weeks (247–318 hours). *Version 2:* 10 weeks (307–313 hours).

Exhibit Dates: *Version 1:* 1/74–Present. *Version 2:* 11/72–12/73.

Objectives: To train enlisted personnel in administration and personnel management.

Instruction: *All Versions:* Lectures on administrative functions; correspondence; publications; mail handling; manpower management system; work measurement techniques; authorization documents, orders, records, and files; data processing systems; and personnel management. *Version 1:* Common subjects for all personnel emphasize personnel and records administration.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel records administration (6/77). *Version 2:* In the vocational certificate category, 6 semester hours in personnel management (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in personnel management (5/74); in the upper-division baccalaureate category, 6 semester hours in personnel management (5/74).

Related Occupation Codes: 71B; 71C; 71D; 71E; 71F; 71L; 71M; 71Q; 71R; 71U; 74C; 75C; 75D; 75E; 76L; 01K; 03B; 03C; 03D.

AR-1408-0022

Engineer Construction Contracting

Course Number: 4A-F4.

Location: Engineer School, Ft. Belvoir, VA.

Length: 2 weeks (72–73 hours).

Exhibit Dates: 8/69–Present.

Objectives: To train commissioned officers and civilian personnel to procure and manage civil works and military construction contracts, and architect/engineer design contracts.

Instruction: Lectures and practical exercises in contract administration and other aspects of construction, including critical path method for construction management, general principles of construction contract law, critical path method and its use in time and cost analysis and control of a project, disputes procedures, termination of contracts, contract case studies, construction estimating procedures, and contract procurement.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in construction contracting (9/79).

AR-1408-0023

1. Associate Signal Officer Career (Associate Signal Officer Advanced)
2. Associate Signal Officer Advanced

Course Number: *Version 1:* 11-A-C23; 11-A-C5. *Version 2:* 11-0-4.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 13–19 weeks (455–680 hours). *Version 2:* 12–15 weeks (436–630 hours).

Exhibit Dates: *Version 1:* 12/57–12/68. *Version 2:* 11/53–11/57.

Objectives: To train commissioned officers as Signal Corps officers.

Instruction: *All Versions:* Lectures and practical exercises in the duties of Signal Corps officers, including radio and wire communications, modern warfare, and Signal Corps organization and tactics. *Version 1:* Includes automatic data processing systems, logistics, personnel and administration, electronic warfare, and communications center operations. *Version 2:* Includes map reading and signal supply and maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in business organization and management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (6/74); in the upper-division baccalaureate category, 4 semester hours in business organization and management (12/68). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in business organization and management (12/68).

AR-1408-0024

Radio Teletype Operator Noncommissioned Officer (NCO) Basic

Course Number: 201-05C40-EC.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 12 weeks (463 hours).

Exhibit Dates: 3/71–Present.

Objectives: To train noncommissioned officers to supervise radio teletype operations.

Instruction: Lectures in the administration and supervision of radio teletype operations. Course includes many aspects of administration including financial, personnel, records, maintenance management, and numerous military-related concerns such as military leadership and command tactics.

Credit Recommendation: In the vocational certificate category, 2 semester hours in administrative management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in administrative management (6/74).

Related Occupation Codes: 05C.

AR-1408-0025

Cost Estimating Techniques for Systems Acquisition

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 4–5 weeks (151–183 hours).

Exhibit Dates: 10/70–Present.

Objectives: To train commissioned officers to estimate costs of military systems acquisition and support.

Instruction: Lectures and practical exercises in cost estimation of military systems acquisition and support, including parametric techniques and constraints of cost estimation, cost estimation relationship, mathematics and statistics, learning-curve theory, economic analysis, managerial accounting, acquisition policy and management, risk analysis techniques, cost growth, computer model estimation of life cycle costs, and industrial engineering.

Credit Recommendation: In the vocational certificate category, 2 semester hours in cost analysis (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in cost analysis (6/74); in the upper-division baccalaureate category, 2 semester hours in cost analysis (6/74).

AR-1408-0026

Non-Integrated Radar Maintenance (RM-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 1-RM-C40A.

Location: Signal School, Ft. Monmouth, NJ.

Length: 11 weeks (378 hours).

Exhibit Dates: 8/72–Present.

Objectives: To train enlisted personnel to maintain nonintegrated radar.

Instruction: Lectures in nonintegrated radar maintenance, including maintenance and supply management, maintenance shop organization and administration, and general military subjects.

Credit Recommendation: In the vocational certificate category, 3 semester hours in principles of management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management (6/74); in the upper-division baccalaureate category, 3 semester hours in principles of management (6/74).

Related Occupation Codes: 26B; 26D; 26H; 26P.

AR-1408-0027

Quartermaster Officer Candidate

Course Number: 8-10-F1.

Location: Quartermaster School, Ft. Lee, VA.

Length: 23 weeks (859 hours).

Exhibit Dates: 10/66–12/68.

Objectives: To train personnel as quartermaster officers.

Instruction: Lectures and practical exercises in the duties and responsibilities of quartermaster officers engaged in the supervision of supplies and equipment procurement. Course includes leadership, organizational administration, effective writing, supply accounting, storage and inventory, procurement procedures, map and air photograph reading, instructor training, communications, and conduct of selected military operations.

Credit Recommendation: In the vocational certificate category, 6 semester hours in business organization and management (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in business organization and management (6/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management, and credit in advanced military on the basis of institutional evaluation (12/68).

AR-1408-0028

1. Field Artillery Officer Advanced
2. Field Artillery Officer Advanced
3. Artillery Officer Career
4. Artillery Officer Career

Course Number: *All Versions:* 2-6-C22. *Version 3:* 6-A-C22.

Location: Artillery and Missile School, Ft. Sill, OK; Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 26 weeks (826–893 hours). *Version 2:* 40 weeks (1268–1310 hours). *Version 3:* 37 weeks (1260 hours). *Version 4:* 32–42 weeks (1117–1690 hours).

Exhibit Dates: *Version 1:* 10/75–Present. *Version 2:* 5/68–9/75. *Version 3:* 6/67–4/68. *Version 4:* 2/60–5/67.

Objectives: To train commissioned officers to be field artillery officers.

Instruction: *All Versions:* Lectures and practical exercises in artillery transport, communications, guided missiles, gunnery, tactics, target acquisition, and two electives in psychological operations, communicative arts, management, automatic data processing and systems analysis, stability operations, meteorology, or military history. *Version 1:* Electives program has been eliminated. *Version 4:* Instruction does not include electives.

Credit Recommendation: *Version 1:* Credit is not recommended because of the military-specific nature of the course (11/77). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in group dynamics or human relations for students who have completed the psychological operations elective, 3 in composition or technical writing and 3 in public speaking for those who have completed the communicative arts elective, 6 in organization and management for those who have completed the management elective, 3 in automatic data processing and 3 in operations research for those who have completed the automatic data processing systems and operations research systems analysis elective, 6 in political science for those who have completed the stability operations elective, 6 in meteorology for those who have completed the meteorology elective, and/or 6 in military history for those who have completed the military history elective (6/74). *Version 3:* In the upper-division baccalaureate category, 6 semester hours in organization and management for the students who have completed the management elective, 6 in group dynamics or human relations for those who have completed the psychological operations elective, 3 in composition or technical writing and 3 in public speaking for those who have completed the effective writing and oral presentation elective, 4 in political science for those who have completed the stability operations elective, 4 in military history for those who have completed the military history elective, 4 in meteorology for those who have completed the meteorology elective, 2 in operations research and systems analysis for those who have completed the operations research and systems analysis elective and/or 2 in automatic data processing for those who have completed the automatic data processing elective (6/74). *Version 4:* Credit is not recommended because of the limited specialized nature of the course (6/74).

AR-1408-0029

1. Personnel Administration Officer Advanced
2. Personnel Administration Officer Advanced
3. Adjutant General Officer Advanced
4. Adjutant General Officer Advanced
5. Adjutant General Officer Career (Adjutant General Officer Career (Advanced)) (Adjutant General Officer Advanced)

Course Number: *All Versions:* 7-12-C22. *Version 4:* 12-A-C4; 12-O-3.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 21 weeks (751 hours). *Version 2:* 26 weeks (803 hours). *Version 3:* 33–35 weeks (1006–1008 hours). *Version 4:* 25–30 weeks (851–1059 hours). *Version 5:* 24–38 weeks (796–1277 hours).

Exhibit Dates: *Version 1:* 12/77–Present. *Version 2:* 9/75–11/77. *Version 3:* 8/72–8/75. *Version 4:* 7/67–7/72. *Version 5:* 8/55–6/67.

Objectives: To train commissioned officers as personnel and administrative officers.

Instruction: *All Versions:* Lectures and practical exercises in administrative services, personnel management, postal services, data processing, unit organization and operations, combat service support, command and staff procedures, and special services. *Version 1:* Students learn managerial techniques necessary for basic personnel administration skills; develop interpersonal and managerial skills necessary for proper management of people and organizations including problem solving techniques; provide a knowledge of automated pay and personnel systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to automatic data processing and 3 principles of management (1/78); in the upper-division baccalaureate category, 3 semester hours in organization development, 5 in personnel management, 3 in cases in personnel and organizational administration (1/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in business management, 3 in personnel management (6/76). *Version 3:* In the vocational certificate category, 3 semester hours in business management, 3 in personnel management (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business management, 3 in personnel management (5/74). *Version 4:* In the vocational certificate category, 3 semester hours in business organization and management, 3 in personnel management (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management, 3 in personnel management (5/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in personnel management, and credit in data processing on the basis of institutional evaluation (12/68). *Version 5:* In the vocational certificate category, 3 semester hours in business organization and management, 3 in personnel management (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management, 3 in personnel management (5/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in personnel management (12/68).

AR-1408-0030

1. Associate Air Defense Officer Advanced
2. Associate AAA and SAM Officer Advanced

Course Number: 44-A-C5.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 21 weeks (666–675 hours). *Version 2:* 19 weeks (703 hours).

Exhibit Dates: *Version 1:* 5/58–12/68. *Version 2:* 4/57–4/58.

Objectives: To train officers as field-grade air defense artillery officers and nuclear weapons employment officers.

Instruction: Lectures and practical exercises in the duties of field-grade air defense artillery officers and nuclear weapons employment officers, including general military and leadership subjects, intelligence and counterintelligence, communications procedures, electronics, basic radar circuits, gunnery and materiel, atomic weapons, Nike, Ajax, and Hercules systems, combined arms, and missile tactics.

Credit Recommendation: In the vocational certificate category, 6 semester hours in business organization and management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (6/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management (6/74).

AR-1408-0031

1. Ordnance Officer Advanced
2. Ordnance Officer Career (Ordnance Officer Advanced)

Course Number: *Version 1:* 4-9-C22. *Version 2:* 9-A-C22; 9-A-C4.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 36 weeks (1170 hours). *Version 2:* 22–24 weeks (713–739 hours).

Exhibit Dates: *Version 1:* 11/70–1/76. *Version 2:* 1/58–10/70.

Objectives: To train commissioned officers in advanced ordnance operations.

Instruction: Lectures and practical exercises in advanced ordnance operations, including organization for logistics; administration and operations; tactics and staff procedures; logistics management; management functions and techniques; supply and maintenance operations; ammunition, armament, automotive, and fire control materiel; guided missile and rocket materiel; special weapons materiel; and problems in ordnance service.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in business organization and management and 4 in supply management (12/68). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in business organization and management (12/68).

AR-1408-0032

1. Quartermaster Officer Advanced
2. Quartermaster Officer Advanced
3. Quartermaster Officer Career (Quartermaster Officer Advanced)
4. Quartermaster Officer Advanced

Course Number: *Version 1:* 8-10-C22. *Version 2:* 8-10-C22. *Version 3:* 8-10-C22; 10-A-C22; 10-A-C4. *Version 4:* 10-A-C4; 10-O-3.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 32–36 weeks (1132–1172 hours). *Version 2:* 31 weeks (952–987 hours). *Version 3:* 24-32 weeks (720-960 hours). *Version 4:* 33-35 weeks (1023-1132 hours).

Exhibit Dates: *Version 1:* 10/72-Present. *Version 2:* 7/68-9/72. *Version 3:* 2/59-6/68. *Version 4:* 10/54-1/59.

Objectives: To prepare Quartermaster officers for command and staff positions.

Instruction: Instruction covers general management subjects, including objectives, concepts, and functions of management; organization theory; personnel development; theory of leadership; data processing, systems analysis, and statistics; supply management and support; storage operations; installation logistics; industrial mobilization planning; and written and oral communication.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in personnel management, 6 in organization and management, and 3 in supply management (6/75). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in business organization and management, 4 in supply management, and additional credit for the electives on the basis of institutional examination (7/74). *Version 3:* In the upper-division baccalaureate category, 4 semester hours in supply management and 4 in business organization and management (12/68). *Version 4:* In the upper-division baccalaureate category, 4 semester hours in supply management and 6 in business organization and management (12/68).

AR-1408-0033

Associate Quartermaster Company Officer

Course Number: 10-B-C3; 10-A-C3; 10-O-2.

Location: Quartermaster School, Ft. Lee, VA.

Length: 15 weeks (525-546 hours).

Exhibit Dates: 10/54-12/68.

Objectives: To train commissioned officers as company grade Quartermaster Corps officers.

Instruction: Lectures and practical exercises in the duties of a company grade Quartermaster Corps officer. Course includes general military subjects, weapons, map reading, command and staff procedures, organization and tactics, supply and distribution procedures, and quartermaster operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in materials handling (7/74); in the upper-division baccalaureate category, 3 semester hours in supply management, 3 in business organization and management (12/68).

AR-1408-0034

Financial Management—Mobilization Designees

Course Number: None.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (70-74 hours).

Exhibit Dates: 5/55-12/68.

Objectives: To train commissioned officers in financial management and administration.

Instruction: Lectures and practical exercises in financial management and administration, including financial management training, installation operating schedule and budget execution plan, cost and performance reporting, Finance Corps procedures and responsibilities, pistol qualification, civil emergencies, and comptrollership.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/74).

AR-1408-0035

1. Defense Specification Management
2. Specification Management

Course Number: *Version 1:* 8D-F1. *Version 2:* 400-G-F7.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: *Version 1:* 2 weeks (71 hours). *Version 2:* 3 weeks (90 hours).

Exhibit Dates: *Version 1:* 8/73-Present. *Version 2:* 1/64-7/73.

Objectives: To familiarize military and civilian personnel in the development, preparation, and use of specifications.

Instruction: *Version 1:* Lecture-conferences and practical exercises. Topics include fundamentals of specifications, requirements of specifications, specifications and procurement, quality assurance, preparation for delivery, and management practices. *Version 2:* Lectures and practical exercises in management decision making for the development, preparation, and use of specifications, including management concepts and policies for military and federal specifications, quality assurance, preparation for delivery, automatic data processing systems, specifications requirements and legal aspects of specifications.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in procurement (12/75). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in procurement management (12/68).

AR-1408-0036

Aviation Commander's Readiness
(Aviation Command and Resource Management)

Course Number: 2G-F15.

Location: Aviation Center, Ft. Rucker, AL.

Length: *Version 1:* 2 weeks (61-63 hours). *Version 2 :* 2 weeks (60 hours).

Exhibit Dates: *Version 1:* 8/74-Present. *Version 2:* 3/73-7/74.

Objectives: To train commissioned officers as commanders of aviation units.

Instruction: Lectures and practical exercises in the duties of commanders of aviation units, including management functions (communications, problem solving, decision making), maintenance management, personnel procedures, supply management, drug abuse and race relations, aviation safety and medicine, and military subjects.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management (10/78). *Version 2:* In the vocational certificate category, 1 semester hour in administrative management (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in administrative management (7/74).

AR-1408-0037

Work Planning and Control

Course Number: 7A-F21.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: *Version 1:* 2 weeks (77 hours). *Version 2:* 3 weeks (117 hours).

Exhibit Dates: *Version 1:* 9/76-Present. *Version 2:* 11/66-8/76.

Objectives: To train enlisted personnel to design and use work planning and work control systems.

Instruction: *All Versions:* Lectures and practical exercises in the design and use of work planning and work control systems, including systems study, types of work planning and work control systems, forecasting, statistical control of forecasting, product and process planning, routing, material control and management, scheduling and loading, dispatching, progress reporting, and corrective actions. *Version 2:* Includes job acceptance, time estimating, emphasis on achievement of effective information system; network based management techniques, breakeven analysis, economic order quantity determination and computer application in work planning and control. Course paper is required.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in production planning and management, production management systems, or industrial engineering techniques (11/76). *Version 2:* In the vocational certificate category, 2 semester hours in work measurement (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in work measurement (7/74).

AR-1408-0038

Ordnance Officer Advanced Missile

Course Number: 4-9-C22E.

Location: Missile and Munitions School, Redstone Arsenol, AL.

Length: 26 weeks (822-906 hours).

Exhibit Dates: 2/76-Present.

Objectives: To train commissioned Officers in advanced ordnance operations.

Instruction: Lectures and practical exercises in advanced ordnance operations, including organization for logistics; administration and operations; tactics and staff procedures; management functions and techniques and missile material management.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in supply management (1/78).

AR-1408-0039

Manpower Validation

Course Number: None.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 4 weeks (157 hours).

Exhibit Dates: 9/64-12/68.

Objectives: To train commissioned officers in manpower validation management.

Instruction: Lectures and practical exercises in manpower validation. Course includes the management process, introduction to methods improvement, basic mathematics and statistics, work sampling, methods improvement techniques, introduction to work management, time study and standard-data appreciation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in work measurement (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in work measurement (7/74); in the upper-division baccalaureate category, 2 semester hours in industrial engineering (12/68).

AR-1408-0040

Personnel Specialist–WAC

Course Number: 500-71H20B.

Location: Women's Army Corps School, Ft. McClellan, AL.

Length: 4 weeks (142 hours).

Exhibit Dates: 4/70–Present.

Objectives: To train clerks to prepare and maintain personnel records.

Instruction: Lectures and practical exercises in the preparation and maintenance of nonfinancial personnel records and actions, including military structure, records routines, and administration.

Credit Recommendation: In the vocational certificate category, 2 semester hours in office administration (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in office administration (7/74).

Related Occupation Codes: 70A; 71H.

AR-1408-0041

Associate Chemical Officer Career

Course Number: 5-3-C23; 3-A-C23.

Location: Chemical School, Ft. McClellan, AL.

Length: 17–20 weeks (638–723 hours).

Exhibit Dates: 10/60–12/68.

Objectives: To train commissioned officers to be Chemical Corps officers.

Instruction: Lectures and practical exercises in management and administration; personnel; supply and maintenance; military arts and operations; and the technical aspects of chemical, biological, and nuclear warfare and defense.

Credit Recommendation: In the vocational certificate category, 2 semester hours in business organization and management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 4 semester hours in business organization and management, and credit in chemistry on the basis of institutional evaluation (12/68).

AR-1408-0042

Associate Field Artillery Officer Career

(Associate Field Artillery Officer Advanced)

Course Number: 6-A-C23; 6-A-C5; 6-O-4A.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 18–19 weeks (665–724 hours).

Exhibit Dates: 5/56–8/67.

Objectives: To train officers to be senior field artillery officers.

Instruction: Lectures and practical exercises in communications, electronics, missiles, gunnery, tactics, and employment of combined arms.

Credit Recommendation: In the vocational certificate category, 2 semester hours in business organization and management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-1408-0043

Equipment Storage Specialist, Skill Development Base

Course Number: 551-76V40-I.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (426 hours).

Exhibit Dates: 12/68–Present.

Objectives: To train selected enlisted personnel to perform as equipment storage specialists.

Instruction: Lectures and practical exercises in the duties of equipment storage specialists. Course includes military leadership; map reading; administration; packaging; storage; materials handling; automatic data processing; and selected military subjects.

Credit Recommendation: In the vocational certificate category, 1 semester hour in principles of management (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management (7/74).

Related Occupation Codes: 76V; 76Z.

AR-1408-0044

Supply (SU-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 5-SU-C40A.

Location: Quartermaster School, Ft. Lee, VA.

Length: 10–12 weeks (353–420 hours).

Exhibit Dates: 3/73–Present.

Objectives: To train enlisted personnel to perform as noncommissioned officers in supply.

Instruction: Lectures and practical exercises in the function of noncommissioned officers in supply, including leadership, logistical combat support, maintenance management, communicative techniques, introduction to career management field, DSU accounting procedures, mechanized stock control procedures at DSU level, ASDA accounting procedures for repair parts, storage of repair parts, special accounting procedures, and ASDA accounting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in principles of management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management (7/74); in the upper-division baccalaureate category, 3 semester hours in principles of management (7/74).

Related Occupation Codes: 76P; 76Q; 76R; 76S; 76T; 76U; 76V; 76X; 76Y.

AR-1408-0045

Communications Operations (CO-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 5-CO-C42B.

Location: Signal School, Ft. Monmouth, NJ.

Length: 11 weeks (396 hours).

Exhibit Dates: 11/72–12/77.

Objectives: To train noncommissioned officers in advanced communications operations.

Instruction: Lectures and practical exercises in communication operations, including general military subjects, administrative and management practices, combat service support operations, field training exercises, satellite communications, communication security, fixed-station radio communications, data processing and data communications, and dial exchange equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic telephone circuits, 1 in administrative management (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in administrative management (6/74).

Related Occupation Codes: 72G.

AR-1408-0046

1. Chemical Officer Advanced
2. Chemical Officer Advanced (Chemical Officer Career)
3. Chemical Officer Advanced
4. Chemical Officer Advanced

Course Number: *Version 1:* 5-3-C22. *Version 2:* 5-3-C22; 3-A-C22. *Version 3:* 3-A-C4. *Version 4:* 3-O-3.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: *Version 1:* 36 weeks (1200 hours). *Version 2:* 28–36 weeks (958–1203 hours). *Version 3:* 36 weeks (1085–1173 hours). *Version 4:* 38 weeks (1396 hours).

Exhibit Dates: *Version 1:* 1/73–Present. *Version 2:* 3/60–12/72. *Version 3:* 12/55–2/60. *Version 4:* 9/54–11/55.

Objectives: To prepare Chemical Corps officers for command and staff positions.

Instruction: Lectures and practical exercises in the duties of Chemical Corps officers, including personnel and administrative procedures; management; technical aspects of biological and chemical operations; nuclear warfare and radiological defense; CBR defense and materiel; medical training and support; CBR plans, training and operation; and logistics.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in nuclear instrumentation and 3 in radiological safety (5/74); in the upper-division baccalaureate category, 3 semester hours in nuclear instrumentation and 3 in radiological safety (5/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in management, 3 in science (7/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management, and additional credit in chemistry on the basis of institutional evaluation (12/68). *Version 3:* In the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management and additional credit in physics or nuclear technology on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management and additional credit in physics or nuclear technology on the basis of institutional evaluation (12/68). *Version 4:* In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management and additional credit in physics or nuclear technology on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management and additional credit in physics or nuclear technology on the basis of institutional evaluation (12/68).

AR-1408-0047

Associate Chemical Officer Advanced

Course Number: 3-A-C5; 3-O-4.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 15–18 weeks (533–633 hours).

Exhibit Dates: 7/56–6/60.

Objectives: To train Chemical Corps company officers in the duties appropriate to field grade Chemical Corps officers.

Instruction: Lectures and practical exercises in the duties of field grade Chemical Corps officers, including personnel and administrative procedures; logistics; management; CBR plans, training, and operations; technical aspects of chemical and biological warfare; technical aspects of atomic and radiological warfare; protection; materiel; and combat arms.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business management (7/74); in the upper-division baccalaureate category, 4 semester hours in business organization and management, and credit in chemistry on the basis of institutional evaluation (12/68).

AR-1408-0048

1. NONCOMMISSIONED OFFICER (NCO) SPECIAL ASSIGNMENT ADVANCED (Recruitment and Retention Noncommissioned Officer (NCO) Advanced)
2. ARMY RECRUITER AND CAREER COUNSELOR NCO ADVANCED ASSIGNMENT
3. SPECIAL ASSIGNMENT (SP-CMP) NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: *All Versions:* 5-SP-C42. *Version 1:* 5-79-C42.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 4 weeks (152 hours). *Version 2:* 5 weeks (166 hours). *Version 3:* 9 weeks (283 hours).

Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 3/76–2/78. *Version 3:* 11/72–2/76.

Objectives: To provide a working knowledge of duties required in personnel management and administration.

Instruction: *All Versions:* Lectures and practical exercises in leadership, management, manpower, data processing, fundamentals of military operations, personnel administration, and English composition. *Version 1:* Includes evaluation of recruiting techniques and training methods for new recruiters *Version 2:* Includes military recruiting and reenlistment subjects and career counseling. Emphasis is on techniques and procedures.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in sales techniques (2/80) *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in interviewing techniques (2/78). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management and administration, 1 in English composition (2/74); in the upper-division baccalaureate category, 3 semester hours in personnel management and administration, 1 in English composition (2/74).

Related Occupation Codes: 00E.

AR-1408-0049

CIVIL AFFAIRS AND MILITARY GOVERNMENT OFFICER ADVANCED (CAMG Officer Advanced)

Course Number: 41-I-F2.

Location: Civil Affairs and Military Government School, Ft. Gordon, GA.

Length: 4 weeks (163–169 hours).

Exhibit Dates: 4/57–12/68.

Objectives: To train selected officers and civilians in the conduct of civil affairs and military government operations.

Instruction: Course covers civil affairs and military government planning, tactical units and operations, and civil emergencies.

Credit Recommendation: In the vocational certificate category, 1 semester hour in business organization and management (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in business organization and management (8/74); in the upper-division baccalaureate category, 2 semester hours in business organization and management (8/74).

AR-1408-0050

AREA SIGNAL CENTER OFFICER

Course Number: 4C-022-0.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 5 weeks (236–257 hours). *Version 2 :* 5 weeks (276 hours).

Exhibit Dates: *Version 1:* 1/70–Present. *Version 2:* 6/67–12/69.

Objectives: To provide Signal Corps officers with knowledge of the installation, operation, and maintenance of an army signal center.

Instruction: Course covers communications system planning, engineering, and analysis and a variety of military subjects.

Credit Recommendation: *All Versions:* Credit is not recommended because of the military-specific nature of the course (7/74). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-1408-0051

FINANCE OFFICER MOBILIZATION BASIC, PHASE II

Course Number: 7-14-C1.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 7 weeks (234–235 hours).

Exhibit Dates: 1/68–Present.

Objectives: To train finance officers of the reserve components for duty at the company level.

Instruction: Lectures and practical exercises in the duties of finance officers, including military science operations and command, control of appropriated funds, automatic data processing, finance organizations, entitlements, operations, programming (UNIVAC 1005), nuclear weapons employment, pay and allowances of military personnel, and disbursing operations.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in finance and disbursing (12/68).

AR-1408-0052

1. FINANCE OFFICER BASIC
2. FINANCE OFFICER BASIC
3. FINANCE OFFICER BASIC
4. FINANCE OFFICER BASIC
5. FINANCE OFFICER BASIC (Finance Officer Orientation)
6. FINANCE OFFICER BASIC

Course Number: *Version 1:* 7-14-C20. *Version 2:* 7-14-C20. *Version 3:* 7-14-C20. *Version 4:* 7-14-C20; 14-A-C20. *Version 5:* 14-A-C20. *Version 6:* 14-A-C1; 14-O-A.

Location: *All Versions:* Finance School, Ft. Benjamin Harrison, IN. *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Institute of Administration, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 15 weeks (496 hours). *Version 2:* 12 weeks (383–390 hours). *Version 3:* 9 weeks (292–314 hours). *Version 4:* 9 weeks (323 hours). *Version 5:* 8–9 weeks (307–333 hours). *Version 6:* 12–14 weeks (456–540 hours).

Exhibit Dates: *Version 1:* 9/75–Present. *Version 2:* 3/73–8/75. *Version 3:* 5/66–2/73. *Version 4:* 8/64–4/66. *Version 5:* 7/60–7/64. *Version 6:* 8/55–6/60.

Objectives: To train officers in the duties and responsibilities of Finance Corps officers.

Instruction: *All Versions:* Lectures and practical exercises on the duties of officers in the Finance Corps, including military science, finance and accounting practices, travel allowances, pay of military personnel, disbursing operations, and finance office operations. *Version 1:* Some attention is given to the fundamentals of behavioral management. *Version 2:* Topics include personnel and leadership functions. *Version 3:* Topics include control of appropriated funds, automatic data processing, finance organizations, and entitlements. *Version 4:* Topics include finance organizations, entitlements, impact and control of errors, commercial accounts, civilian pay, model office, military correspondence, reports of survey, fiscal code, military accounting, appropriation allotment accounting, and introduction to punched-card machines. *Version 5:* Topics include tactics, integrated accounting, command management system, fiscal code, and financial management machine accounting. *Version 6:* Topics include integrated accounting, command management system, nonappropriated funds, general accounting review, military comptrollership, fiscal code, civilian pay operations, commercial accounts, prevention of erroneous and fraudulent claims, tactics, and savings bond promotion.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in fundamentals of accounting, 1 in management fundamentals (1/78); in the upper-division baccalaureate category, 2 semester hours in financial management (1/78). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in financial management and 1 in principles of management (3/75). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in finance and disbursing and additional credit in accounting procedures on the basis of institutional evaluation (8/74). *Version 4:* In the upper-division baccalaureate category, 3 semester hours in finance and disbursing and 1 in accounting procedures (12/68). *Version 5:* In the upper-division baccalaureate category, 3 semester hours in finance and disbursing and 2 in accounting procedures (12/68). *Version 6:* In the upper-division baccalaureate category, 3 semester hours in finance and disbursing and 3 in accounting procedures (12/68).

AR-1408-0053

1. FACILITIES ENGINEERING MANAGEMENT
2. FACILITIES ENGINEERING MANAGEMENT
3. POST ENGINEER MANAGEMENT
4. POST ENGINEER MANAGEMENT (Post Engineer)

Course Number: *Version 1:* 4A-21C. *Version 2:* 4A-21C; 4A-7130. *Version 3:* 4A-F2. *Version 4:* 5-O-6.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 3 weeks (99 hours). *Version 2:* 4 weeks (135 hours). *Version 3:* 3 weeks (106 hours). *Version 4:* 4 weeks (99–132 hours).

Exhibit Dates: *Version 1:* 6/79–Present. *Version 2:* 9/72–5/79. *Version 3:* 1/67–8/72. *Version 4:* 9/55–12/66.

Objectives: To train commissioned officers, warrant officers, and civilian personnel in facilities engineering management.

Instruction: *All Versions:* Lectures and practical exercises in facilities engineering management, including management and administration, maintenance and repair, and miscellaneous services. *Version 1:* Lectures, seminars, and practical exercises in facilities engineering management, including management administration, maintenance, and miscellaneous services. Topics include cost accounting master planning at installations, environmental management and property management. *Version 2:* Topics include cost accounting; master planning at installations; maintenance methods for paved surfaces; fire prevention and protection; organization and responsibilities; and natural and nuclear disaster relief and rehabilitation operations. *Version 3:* Topics include RPMA program management, management and analysis, contract management, environmental engineering management, and facilities engineering support services. *Version 4:* Topics include field inspections; cost engineering, budgets, and funds; fire prevention and protection; utilities; refrigeration; electrical facilities; atomic, biological, chemical, and radiological aspects; preventive maintenance; supervision; and master planning at installations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in business organization and management (7/79). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in business organization and management (9/74); In the upper-division baccalaureate category, 2 semester hours in business organization and management (7/74). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

Related Occupation Codes: 310A; 521A.

AR-1408-0054

ADJUTANT/ADJUTANT GENERAL OFFICER FAMILIARIZATION

Course Number: 12-A-C21.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 5 weeks (187–189 hours).

Exhibit Dates: 1/60–12/68.

Objectives: To train commissioned officers to serve effectively in Adjutant General's Corps officer positions.

Instruction: Lectures and practical exercises in the duties of Adjutant General's Corps officer. Course includes staff functions, roles and operations of Adjutant General's Corps, administrative actions, personnel actions, and personnel management.

Credit Recommendation: In the vocational certificate category, 2 semester hours in office management (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in office management (8/74); in the upper-division baccalaureate category, 2 semester hours in office management (12/68).

AR-1408-0055

ARMY INSTALLATION MANAGEMENT

Course Number: 1B-F1.

Location: *Version 1:* Logistics Management Center, Ft. Lee, VA. *Version 2:* Management School, Ft. Belvoir, VA.

Length: *Version 1:* 3 weeks (113–135 hours). *Version 2 :* 3 weeks (142 hours).

Exhibit Dates: *Version 1:* 6/69–Present. *Version 2:* 8/65–5/69.

Objectives: To train personnel in the techniques, practices, and fundamentals of Army installation, management, management of Army resources, minimization of operational costs, and enhancement of unit readiness.

Instruction: *All Versions:* Lecture-conference sessions, cases studies, workshops and guest lectures. *Version 1:* Topics include financial management, general management, logistics management, managerial tools and techniques, management information systems, civilian personnel management, force development and manpower management, and installation operations management. *Version 2:* Topics include financial and logistics management, operations management, labor-management relations, and management information data systems.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in general management (12/75). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in business organization and management (12/68).

AR-1408-0056

COST ANALYSIS FOR DECISION MAKING

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 4 weeks (157 hours).

Exhibit Dates: 5/73–Present.

Objectives: To train commissioned officers and civilian personnel in the theory and application of cost and economic analysis as applied to the development, acquisition and operation of Army weapons systems and facilities.

Instruction: Lectures, practical exercises and workshops in cost analysis theory and application. Includes regression analysis, learning curve theory, non-statistical estimating methods, uncertainty analysis, inflation theory and practice, design-to-cost, and development of cost estimating relationships.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in cost analysis (12/75); in the graduate degree category, 1 semester hour in cost analysis (12/75).

AR-1408-0057

GENERAL FUNCTIONAL SYSTEMS REQUIREMENT (GFSR) IN SYSTEMS DEVELOPMENT

Course Number: None.

Location: Logistics Management Center, Ft. Lee, VA; On-Site Locations, Continental U.S..

Length: 3 weeks (118 hours).

Exhibit Dates: 1/73–Present.

Objectives: To train ADP systems and functional analysts in the techniques and procedures required to develop the functional specifications for a new or revised automated system.

Instruction: Lecture-conferences, workshops, and practical exercises in the techniques and procedures required in the development of general functional systems requirements, including management information systems concepts; general ADP system requirements; system structuring; system and workloading data; performance requirements; system conversion and evaluation; resource requirements and benefits to be achieved; and detailed functional system requirements.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in systems analysis (12/75).

AR-1408-0058

ASSOCIATE ADJUTANT GENERAL COMPANY OFFICER

Course Number: 12-B-C3; 12-O-2.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 12–14 weeks (426–522 hours).

Exhibit Dates: 9/55–12/68.

Objectives: To train selected Army officers for duty with the Adjutant General's Corps.

Instruction: The course covers oral and written communation, conduct, administrative services, personnel management and administration, automatic data processing, and military combat support.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (8/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-1408-0059

ASSOCIATE COMMAND AND GENERAL STAFF OFFICER

Course Number: 1-250-C3; 250-A-C3; 250-O-3.

Location: Command and General Staff College, Ft. Leavenworth, KS.

Length: 16–18 weeks (528–662 hours).

Exhibit Dates: 7/54–8/67.

Objectives: To prepare selected officers for duty as commanders and as principal general staff officers of divisions and logistical commands.

Instruction: Subjects include introduction to command structure, staff procedures and techniques, tactical and logistical organizations, and the fundamentals of various types of operations.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-1408-0060

1. WAC OFFICER ADVANCED
2. WAC OFFICER CAREER
   (WAC Officer Advanced)

Course Number: *Version 1:* 7-35-C22. *Version 2:* 35-A-C22; 35-O-3.

Location: Women's Army Corps School, Ft. McClellan, AL.

Length: *Version 1:* 25 weeks (664–700 hours). *Version 2:* 20–24 weeks (653–785 hours).

Exhibit Dates: *Version 1:* 11/70–Present. *Version 2:* 1/55–10/70.

Objectives: To provide WAC officers with an understanding of command functions, for command support and development of managerial and specialist skills.

Instruction: Course covers automatic data processing, combat-related subjects, leadership and management, oral communication, effective writing, international relations, operations research, and personnel management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in international relations, and 3 in oral and written communication (7/74). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in business organization and management, and 2 in oral and written communication (12/68).

AR-1408-0061

MILITARY COMPTROLLERSHIP

Course Number: *Version 1:* 7D-45A. *Version 2:* 7D-2800. *Version 3:* 7D-2800. *Version 4:* 7D-2800. *Version 5:* 7D-F1; 14-G-F13; 14-G-2800; 14-G-6000; 14-O-16.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Finance School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 5 weeks (180–195 hours). *Version 2:* 7 weeks (257–258 hours). *Version 3:* 7 weeks (253–254 hours). *Version 4:* 10 weeks (343 hours). *Version 5:* 6 weeks (217–235 hours).

Exhibit Dates: *Version 1:* 10/76–Present. *Version 2:* 10/73–9/76. *Version 3:* 5/68–9/73. *Version 4:* 1/68–4/68. *Version 5:* 9/55–12/67.

Objectives: To train commissioned officers to be comptrollers in the field.

Instruction: *All Versions:* Instruction includes concepts and functions of comptrollership, principles of management, fund accounting, planning programming, and budgeting. *Version 1:* Course includes programming and budgeting formulation, budget execution, managerial accounting including review and analysis. Provides a general orientation in statistical techniques, automatic data processing, and fund management. *Version 5:* Includes internal review; program and statistical reporting and analysis; management engineering; and supply management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in business and economic analysis and 3 in financial management (1/78). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in financial management, 1 in fund accounting (3/75). *Version 3:* In the upper-division baccalaureate category, 5 semester hours in management control systems (7/74). *Version 4:* In the upper-division baccalaureate category, 6 semester hours in management control systems (7/74). *Version 5:* In the upper-division baccalaureate category, 4 semester hours in management control systems (7/74).

AR-1408-0062

1. ARMY BASIC PROCUREMENT OPERATIONS
   (Army Station Procurement)
2. ARMY PROCUREMENT

Course Number: *All Versions:* 10-O-13. *Version 1:* 10-I-F5; 10-G-F5.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 3–4 weeks (95–140 hours). *Version 2:* 8 weeks (282 hours).

Exhibit Dates: *Version 1:* 9/56–12/68. *Version 2:* 10/54–8/56.

Objectives: To train officers, warrant officers, and civilian employees in basic principles and procedures applicable to positions of limited authority and responsibility in procurement operations at central, regional, and installation procurement offices.

Instruction: *All Versions:* Lectures and practical exercises in procurement, with emphasis on contract procedures, types of contracts, and contract administration. *Version 2:* Course includes a limited amount of comptroller and financial management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in purchasing or procurement (12/68). *Version 2:* In the upper-division baccalaureate category, 5 semester hours in purchasing or procurement and additional credit in public administration on the basis of institutional evaluation (12/68).

AR-1408-0063

AVIATION WARRANT OFFICER ADVANCED

Course Number: 2-1-C32.

Location: Aviation Center, Ft. Rucker, AL.

Length: *Version 1:* 12–16 weeks (528 hours). *Version 2:* 21–22 weeks (661–678 hours). *Version 3:* 22–23 weeks (678–691 hours). *Version 4:* 23 weeks (723–767 hours).

Exhibit Dates: *Version 1:* 7/78–Present. *Version 2:* 8/75–6/78. *Version 3:* 5/72–7/75. *Version 4:* 7/69–4/72.

Objectives: To prepare aviation officers to perform in a variety of unit aviation functions.

Instruction: *Version 2:* Lectures and practical exercises in management, including general instruction in the principles, philosophies, concepts and scope of management. Course also covers general instruction in aviation safety in both accident prevention and investigation. *Version 3:* Conferences on general military subjects, general aviation subjects, management, and aviation medicine. *Version 4:* Conferences on aviation unit staff functions/procedures, aviation safety and accident prevention, airfield operations, air traffic control, and combined-arms operations.

Credit Recommendation: *Version 1:* Pending evaluation *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 in communicative skills (10/78); in the upper-division baccalaureate category, 3 semester hours in principles of management and 3 in aviation safety (10/78). *Version 3:* In the vocational certificate category, credit in airport management on the basis of institutional evaluation (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in airport management and 3 in introduction to management (2/74); in the upper-division baccalaureate category, 3 semester hours in airport management and 3 in introduction to management (2/74). *Version 4:* In the upper-division baccalaureate category, 3 semester hours in airport management (2/74).

Related Occupation Codes: 100C; 100D; 100E; 100F; 100G; 100P; 100Q; 100R; 100Z; 103A; 101B; 101C; 102A; 671B; 671C; 671D; 671E.

AR-1408-0064

UNITED STATES ARMY SERGEANTS MAJOR ACADEMY CORRESPONDENCE PROGRAM

(United States Army Sergeants Major Academy Nonresident Program)

Course Number: None.

Location: Sergeants Major Academy, Ft. Bliss, TX.

Length: Average 104 weeks.

Exhibit Dates: 7/74–Present.

Objectives: To prepare active-duty and reserve component noncommissioned officers for positions of greater responsibility in the areas of leadership and human relations, resource management, military organization and world studies.

Instruction: Course consists of seven phases consisting of 102 weeks and a two-week resident phase. Lessons and examinations require comprehensive written and oral solutions. A proctored comprehensive evaluation is conducted in the final phase. Curriculum includes military subjects (overview of U.S. defense policy); world studies (modern history and interrelationships of countries and their governments, the role of the U.S. as determined by foreign policy and military strategy); leadership and human relations (man's behavior, individually and collectively, contemporary problems and their impact on morale, discipline and efficiency of soldiers); resource management (fundamentals of managing people, materiel, systems, and money); training and maintenance management (unit readiness, installation management). In the resident phase the principles and concepts developed in nonresident phases are reinforced in group discussion and applied in problem-solving situations.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in management, 6 in psychology/sociology, 6 in international relations (3/77).

AR-1408-0065

CHAPLAIN OFFICER BASIC

(Chaplain Officer Orientation)

Course Number: 16-A-C20; 5-16-C20.

Location: Chaplain School, Ft. Slocum, NY; Chaplain School, Ft. Wadsworth, NY; Chaplain School, Ft. Hamilton, NY.

Length: 9 weeks (241–330 hours).

Exhibit Dates: 4/60–Present.

Objectives: To prepare newly commissioned chaplains for their first duty assignment and to provide basic training for staff specialists.

Instruction: Lectures and practical exercises in pastoral care and counseling, command and leadership, management, and communication.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management (6/75).

AR-1408-0066

ORDNANCE OFFICER ADVANCED CHEMICAL

Course Number: 4-9-C22A.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 26 weeks (828–874 hours).

Exhibit Dates: 2/76–Present.

Objectives: To train commissioned officers in advanced ordnance operations.

Instruction: Lectures and practical exercises in advanced ordnance operations including organization for logistics; administration and operations; tactics and staff procedures; management functions and techniques and a chemical track including radiological safety.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in radiological safety, 3 in business organization and management, 3 in supply management.

AR-1408-0067

MEDICAL LOGISTICS MANAGEMENT

Course Number: 8B-F20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 10 weeks (356–407 hours).

Exhibit Dates: 2/75–Present.

Objectives: To provide officers with knowledge of concepts and tools of management logistics as related to Army hospitals and field medical units.

Instruction: Lectures and practical exercises in medical materials management, planning, programming, budgeting, basic computer concepts, and logistics.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in materials management (6/75).

AR-1408-0068

AMEDD NONCOMMISSIONED OFFICER NONCOMMISSIONED OFFICER (NCO) BASIC (NCOES)

Course Number: 6-8-C40.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 8-9 weeks (262 hours).

Exhibit Dates: *Version 1:* 5/78–Present. *Version 2:* 8/74–4/78.

Objectives: To provide enlisted personnel with the knowledge and skills required to perform administrative duties in the Army Medical Department.

Instruction: *All Versions:* Lectures and practical exercises in military correspondence, oral communications, supervisory management, and general military topics. *Version 1:* Instruction includes resource management and problem solving techniques.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in administration, 1 in interpersonal communication, and 1 in military science (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management/counseling (6/77).

Related Occupation Codes: 76J; 35G; 94F; 71G.

AR-1408-0069

MANAGEMENT PRACTICES IN TOE/TDA UNIT INSTRUCTOR TRAINING

Course Number: 7A-F36; 510-F4.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 3 weeks (112 hours).

Exhibit Dates: 3/74–2/75.

Objectives: To provide students with knowledge and skills related to management practices in TOE/TDA units.

Instruction: Lectures and practical exercises in instructor training, management practices, and general military subjects.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/75).

Related Occupation Codes: 711A.

AR-1408-0070

COMPTROLLER INTERN FINANCIAL MANAGEMENT

Course Number: 7D-F13.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 2 weeks (62–63 hours).

Exhibit Dates: 3/74–Present.

Objectives: To provide a basic introduction to financial management for newly assigned comptroller interns.

Instruction: Lectures and exercises in comptrollership, military accounting concepts and procedures, economic analysis, and management techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in financial management (3/75).

AR-1408-0071

1. CHAPLAIN OFFICER ADVANCED
2. CHAPLAIN OFFICER CAREER
3. CHAPLAIN OFFICER CAREER

Course Number: *Version 1:* 5-16-22. *Version 2:* 16-A-C22. *Version 3:* 16-A-C22.

Location: *All Versions:* Chaplain School, Ft. Hamilton, NY. *Version 1 :* Chaplain School, Ft. Wadsworth, NY.

Length: *Version 1:* 36 weeks (1115–1338 hours). *Version 2:* 34 weeks (1114 hours). *Version 3:* 21 weeks (738 hours).

Exhibit Dates: *Version 1:* 6/72–Present. *Version 2:* 4/64–5/72. *Version 3:* 7/63–3/64.

Objectives: To provide Army chaplains with an understanding of command functions, branch responsibilities for command support, and development of managerial skills.

Instruction: *All Versions:* Lectures and practical exercises in pastoral activities; medical support; chaplain staff duties; methods of instruction; psychology and counseling; religious education; and military operations to include command and staff procedures, civil defense, intelligence, leadership, weapons employment, and organization and employment of combat and support units. *Version 1:* Topics cover management to include reviews and analysis, programs and budget, office organization and administration, organizational concepts, and public speaking.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in business management, 1 in oral communications (6/75). *Version 2:* In the lower-division baccalaureate/associate degree category, credit in oral communications on the basis of institutional examination (7/74). *All Versions:* Credit is not recommended because of the limited technical nature of the course (7/74).

AR-1408-0072

WARRANT OFFICER SENIOR

Course Number: 1-250-C7.

Location: Aviation Center, Ft. Rucker, AL.

Length: 21–22 weeks (647–663 hours).

Exhibit Dates: 7/74–Present.

Objectives: To provide senior warrant officers with a working knowledge of subject matter essential to their careers in various duty assignments and to provide a background required for the progression of senior warrant officers into technical staff positions.

Instruction: Lectures and practical exercises in management, including general instruction in the principles, philosophies, concepts, and scope of management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 in communicative skills (10/78); in the upper-division baccalaureate category, 3 semester hours in management seminar and 3 in personnel management (10/78).

AR-1408-0073

METHODS-TIME MEASUREMENT 1 (MTM1)

Course Number: 7A-F24.

Location: Management Engineering Training Agency, Rock Island, IL.

Length: 3 weeks (117 hours).

Exhibit Dates: 9/64–Present.

Objectives: To train students to apply the methods-time measurement technique for establishing engineered standards.

Instruction: A standardized course of instruction developed by the Methods-Time Measurement Association is used to cover procedures used in the study and analysis of work and motions and the assigning of proper time values to each basic motion. Attention is given to developing and improving methods, establishing procedures time standards, developing standard data and in using MTM data for estimating, scheduling, and training operators. The course is taught by Association-certified MTM instructors. A standardized test is given to qualify students for MTM-1 Applicator certificates.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in methods time measurement (11/76).

AR-1408-0074

PERSONNEL MANAGEMENT FOR EXECUTIVES

Course Number: 300-0-7; 400-G-F16.

Location: Civilian Training Center, The Pentagon, Washington, DC.

Length: 2–3 weeks (120–142 hours).

Exhibit Dates: 6/56–12/60.

Objectives: To provide senior officers with the current developments in personnel management.

Instruction: Relationship of personnel management to the total management function; principles of organization; delegation of authority; human behavior, motivations, and productivity; interpersonal relationships; communication media and channels; and management techniques and approaches.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in personnel management (12/68).

AR-1408-0075

DIRECTORATE OF INDUSTRIAL OPERATIONS

Course Number: ALM-61-0235.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 4 weeks (143 hours).

Exhibit Dates: 6/76–Present.

Objectives: To enable officer and civilian graduates to improve their management performance in various installation support activities.

Instruction: Lectures, practical exercises, and group discussions covering general management principles; financial management; and management of support activities such as transportation, housing, supply, and facilities maintenance.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in general management (3/78).

AR-1408-0076

FINANCE OFFICER ADVANCED (NONRESIDENT/RESIDENT)

Course Number: 7-14-C23.

Location: Institute of Administration, Ft. Benjamin Harrison, IN.

Length: In residence 10 weeks (In residence 298 hours).

Exhibit Dates: 10/74–Present.

Objectives: To prepare Finance Officers of the Reserve Components for branch command and staff duties.

Instruction: Phase IA includes fundamental branch subjects, primarily automated data processing, governmental cost accounting, and basic statistics. Phases II through VI include military accounting subjects, general military subjects/combat skills, controller subjects, command and staff subjects, staff finance subjects and JUMPS-Army management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic computers and 1 in fundamental management (2/78); in the upper-division baccalaureate category, 2 semester hours in fundamental financial management (2/78).

AR-1408-0077

Ordnance Officer Advanced Munitions Materiel Management
(Ordnance Officer Advanced Munitions)

Course Number: 4-9-C22-75A; 4-9-C22D.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 26 weeks (822–874 hours).

Exhibit Dates: 2/76–Present.

Objectives: To train commissioned officers in advanced ordnance operations.

Instruction: Lectures and practical exercises in advanced ordnance operations, including organization for logistics; administration and operations; tactics and staff procedures; management functions and techniques and munitions materiel management.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in supply management (1/78).

AR-1408-0078

Ordnance Officer Advanced Tank Ground Mobility.

Course Number: 4-9-C22B.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 26 weeks (812–844 hours).

Exhibit Dates: 2/76–Present.

Objectives: To train commissioned officers in advanced ordnance operations.

Instruction: Lectures and practical exercises in advanced ordnance operations including organization for logistics; administration and operations; tactics and staff procedures; management functions and techniques, logistics management, and tank ground mobility track, including electrical materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in automotive or heavy equipment repair (1/78); in the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in supply management, 3 in human relations (1/78).

AR-1408-0079

Project Manager Development

Course Number: ALM-31-0319.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 6 weeks (235 hours).

Exhibit Dates: 11/77–Present.

Objectives: To familiarize personnel with the principal functions associated with Army project management office responsibilities.

Instruction: Lectures and practical exercises in Army acquisition management, systems engineering/logistics management, contract management, financial management and property management.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in systems management orientation (3/78).

AR-1408-0080

Electric Power Production (52-CMF) Noncommissioned Officer (NCO) Basic.

Course Number: 7-521-C40.

Location: Engineer School, Ft. Belvoir, VA.

Length: 5 weeks (174 hours).

Exhibit Dates: 8/75–Present.

Objectives: To train electric power production maintenance personnel to supervise the management of maintenance and repair of electric power production equipment.

Instruction: Conferences and practical exercises in the management and supervision of maintenance and repair operations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in personnel management (9/79); in the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management, 2 in introduction to industrial management (9/79).

AR-1408-0081

Engineer Equipment Maintenance (63-CMF) Noncommissioned Officer (NCO) Basic.

Course Number: 6-634-C40.

Location: Engineer School, Ft. Belvoir, VA.

Length: 6–7 weeks (174–207 hours).

Exhibit Dates: 8/75–Present.

Objectives: To train engineer equipment personnel to supervise the management of repair and maintenance of engineer equipment operations.

Instruction: Conferences and practical exercises in the management and supervision of maintenance and repair operations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in personnel management for both Track A (62B) and Track B(62C) (9/79); in the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management 2 in industrial management, 1 in industrial engineering for Track A(62B), 1 in personnel management, 2 in industrial management for Track B(62C) (9/79).

AR-1408-0082

Communications Electronics Materiel Management Advanced

Course Number: 4B-0A72.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 26 weeks (473 hours). *Version 2:* 14 weeks (1024 hours).

Exhibit Dates: *Version 1:* 8/78–Present. *Version 2:* 5/77–7/78.

Objectives: To prepare signal officers to administer and train units in providing reliability, maintainability and support of the communications-electronics equipment and develop plans for over hauling or replacement of systems.

Instruction: *All Versions:* Lectures and practical exercises in materiel and procurement planning, supply and inventory management, logistics and maintenance management accounting and records procedures. *Version 1:* Instruction includes areas of organizational effectiveness and training management.

Credit Recommendation: Pending evaluation.

AR-1408-0083

Advanced Investigative Management (Reserve Component)

Course Number: 7H-F12; 830-F9-RC.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (78 hours).

Exhibit Dates: 4/78–Present.

Objectives: To provide the skills necessary to manage CID activities.

Instruction: Subjects include management of human resources in the investigative process.

Credit Recommendation: Pending evaluation.

AR-1408-0084

Initial Materiel Support Computation

Course Number: ALM-43-0323; ALM-31-0323.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (71–73 hours).

Exhibit Dates: 6/77–Present.

Objectives: To train in the application of the Standard Initial Provisioning (SIP) Model as approved by the Department of the Army.

Instruction: Major emphasis of lectures, conferences, demonstrations and practical exercises is placed on elements of the Standard Initial Provisioning (SIP) Model which are fundamental to the calaculation of provisioned items.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/78).

AR-1408-0085

Advanced Controllership Symposium

Course Number: None.

Location: Army Institute of Administration, Ft. Benjamin Harrison, IN.

Length: 2 weeks (65 hours).

Exhibit Dates: 5/79–Present.

Objectives: To broaden the professional development of commissioned officers and civilian personnel who are qualified comptrollers.

Instruction: Lectures and small group discussions of relevant military comptrollership policies and procedures including current issues, manpower management, budget, financial management and cost analysis.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in comptrollership (2/80).

AR-1409-0001

Clerk-Typist
(Typing and Clerical Procedures—WAC)
(Clerical Procedures and Typing—WAC)

Course Number: 510-71B30; 510-71B20; 510-71B20B; 35-E-3.

Location: Training Center, Ft. Knox, KY; Training Center, Ft. Leonard Wood, MO; Training Center, Ft. Dix, NJ; Training Center, Ft. Jackson, SC; Training Center, Ft. Ord CA; Training Center, Ft. Polk, LA; Training Center, Ft. McClellan, AL.

Length: Self-paced 4–8 weeks (84–287 hours).

Exhibit Dates: 9/55–Present.

Objectives: To train enlisted personnel in the performance of administrative and clerical duties and to increase their typing proficiency to 30 w.p.m.

Instruction: Lectures and practical exercises in typing, clerical procedures, and English grammar.

Credit Recommendation: In the vocational certificate category, 3 semester hours in typing, 3 in clerical practice (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in clerical practice (3/74).

Related Occupation Codes: 70A; 71B.

AR-1409-0002

Basic Army Administration

Course Number: None.

Location: Army Training Centers, Continental U.S..

Length: 8 weeks (280 hours).
Exhibit Dates: 9/62-12/68.
Objectives: To train enlisted personnel as clerk typists.
Instruction: Lectures and practical application of typing, character guidance, troop information, counterinsurgency training, military correspondence, and duplicating machine operation.
Credit Recommendation: In the vocational certificate category, 3 semester hours in office procedures, 3 in typing (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in typing (3/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

AR-1409-0003

BASIC MORSE CODE

Course Number: 231-F2.
Location: Security Agency School, Ft. Devens, MA.
Length: 13 weeks (456 hours).
Exhibit Dates: 5/70-Present.
Objectives: To train enlisted personnel in the manual operation of international Morse code typewriters.
Instruction: Lectures and practical exercises in administrative processing, security briefing, touch typing, international Morse code receiving, magnetic tape-recorder-reproducer, cut numbers receiving, transmission, modulation, and cryptanalysis.
Credit Recommendation: In the vocational certificate category, 3 semester hours in typing (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typing (3/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).
Related Occupation Codes: 05D; 05H; 05K.

AR-1409-0004

PROXY APPRENTICESHIP TRAINING

Course Number: 231-F4.
Location: Security Agency School, Ft. Devens, MA.
Length: 7 weeks (275 hours).
Exhibit Dates: 12/67-Present.
Objectives: To qualify personnel as proxy apprentices.
Instruction: Lectures and practical exercises in proxy apprenticeship, including preoperation functions, operator maintenance, review of intercept position tasking, search for and identification of designated signals, receiver operation, identification of activity, reaction, postoperative operator maintenance, position update, and performance of postoperational activities.
Credit Recommendation: In the vocational certificate category, 1 semester hour in typing (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing (6/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (6/74).
Related Occupation Codes: 05H.

AR-1409-0005

RADIO TELETYPEWRITER OPERATOR (NON MORSE)

Course Number: 201-05F20.
Location: Southeastern Signal School, Ft. Gordon, GA; Signal School, Ft. Gordon, GA.
Length: 10 weeks (353-359 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to install, operate, and maintain field radio teletypewriter equipment.
Instruction: Lectures and practical exercises in the operation of a radio teletypewriter. Course includes instruction in general communications, key board operations, radio telephone and teletypewriter procedures, and cryptographic devices.
Credit Recommendation: In the vocational certificate category, 2 semester hours in typing (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in typing (6/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (6/74).
Related Occupation Codes: 05F.

AR-1409-0006

COMMUNICATION CENTER SPECIALIST
(Teletype Operation)
(Teletypwriter Operation)

Course Number: 580-72B20; 580-72B10; 11-R-723.1; 11-E-25.
Location: Southeastern Signal School, Ft. Gordon, GA.
Length: 8-12 weeks (280-437 hours).
Exhibit Dates: 1/54-12/74.
Objectives: To train enlisted personnel to operate tactical communication centers and to use cryptographic systems and equipment.
Instruction: Lectures and practical exercises in tactical communication center operations, and in the use of crytographic systems and equipment, including teletypewriting, message handling procedures, communications accounting, cryptographic security and procedures, tape relay procedures, AUTODIN and COMSEC equipment, and basic communications and communications center operations.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in typing (6/74).
Related Occupation Codes: 72B.

AR-1409-0007

MORSE DATA PREPARATION OPERATOR'S TRAINING (AN/GGC-15)

Course Number: 231-F5.
Location: Security Agency School, Ft. Devens, MA.
Length: 3 weeks (105 hours).
Exhibit Dates: 3/64-Present.
Objectives: To train enlisted personnel in the interception and recording of manual Morse signals under critical conditions.
Instruction: Lectures and practical exercises in the interpretation of Morse data. Course includes preoperation readiness, identification of and search for Morse signals; recording; scanning; informing designated recipients; postoperation field update; maintenance and operator handoff; and essential typing training.
Credit Recommendation: In the vocational certificate category, 1 semester hour in typewriting (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typewriting (6/74).
Related Occupation Codes: 05H.

AR-1409-0008

1. ELECTRONIC WARFARE (EW) SIGNAL INTELLIGENCE INTERCEPTOR, MORSE
2. ELECTRONIC WARFARE (EW) AND CRYPTOLOGIC INTERCEPTOR—MORSE

Course Number: 231-05H10.
Location: Intelligence School, Ft. Devens, MA.
Length: 23-24 weeks (686 hours).
Exhibit Dates: *Version 1:* 4/78-Present. *Version 2:* 10/76-3/78.
Objectives: To train enlisted personnel in the procedures and techniques of copying manual Morse code signals.
Instruction: Topics include Morse code, touch typing, mission awareness, message format, and assorted operational information concerning receivers, antennas, and direction-finding equipment.
Credit Recommendation: *Version 1:* Pending Evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in basic typing (9/77).
Related Occupation Codes: 05H.

AR-1409-0009

1. ELECTRONIC WARFARE (EW) SIGNAL INTELLIGENCE EMITTER IDENTIFIER/LOCATOR
2. ELECTRONIC WARFARE (EW) CRYPTOLOGIC SPECIAL IDENTIFICATION TECHNIQUES OPERATOR

Course Number: 231-05D10.
Location: Intelligence School, Ft. Devens, MA.
Length: *Version 1:* 25 weeks (823 hours). *Version 2:* 31 weeks (972 hours).
Exhibit Dates: *Version 1:* 4/78-Present. *Version 2:* 10/74-3/78.
Objectives: To train enlisted personnel to become special-identification-techniques operators.
Instruction: Instruction in Morse code receiving and sending (20 groups/minute), message format, military science, intelligence and security, and basic typing (20 words/minute).
Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in basic typing (9/77).
Related Occupation Codes: 05D.

AR-1409-0010

INTERNATIONAL MORSE CODE (IMC) BY CORRESPONDENCE

Course Number: J46.
Location: Institute for Professional Development, Ft. Eustis, VA.
Length: Maximum 104 weeks (Ft. Eustis, VA hours).
Exhibit Dates: 1/80-Present.
Objectives: To provide the necessary knowledge and skills to become proficient in copying International Morse Code (IMC).
Instruction: Teaches the student to copy Morse code through the use of audio-visual and written material.
Credit Recommendation: Credit is not recommended due to the limited scope of the course (6/79).

AR-1511-0001

FOREIGN AREA OFFICER RESERVE COMPONENT

Course Number: 7B-F6.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 4 weeks (117 hours).
Exhibit Dates: 10/77-Present.
Objectives: To prepare reserve officers for foreign area officer assignments.
Instruction: Lectures and practical exercises in area orientation methodolgy; political development; public administration, comparative government; internal conflict

theory and practice; political theory and methodology and comparative foreign policy.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in international relations (2/80).

AR-1511-0002

CIVIL AFFAIRS
(Civil Affairs Officer)

Course Number: *All Versions:* 5D-8105. *Version 2:* 5D-2920; 41-G-F5.

Location: *Version 1:* Institute for Military Assistance, Ft. Bragg, NC. *Version 2:* Civil Affairs School, Ft. Gordon, GA.

Length: *Version 1:* 7 weeks (361-377 hours). *Version 2:* 8 weeks (282-308 hours).

Exhibit Dates: *Version 1:* 3/73-Present. *Version 2:* 7/62-2/73.

Objectives: To train commissioned officers as civil affairs unit commanders and staff officers.

Instruction: *All Versions:* Lectures and practical exercises in civil affairs principles, policies, activities, organization, and procedures for the purpose of operational planning and execution of the civil affairs mission in support of cold, limited, and general war requirements, including civil affairs support of tactical operations and internal defense, and internal development at lower, intermediate, and higher echelons; and civil affairs operations in support of national strategic objectives. *Version 2:* Topics include civil affairs area study in support of U.S. internal defense/development objectives.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in public administration or political science (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in public administration or political science (7/74); in the upper-division baccalaureate category, 6 semester hours in general social science—political science, public administration, economics and sociology (12/68). *Version 2:* In the vocational certificate category, 6 semester hours in public administration or political science (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in public administration or political science (7/74); in the upper-division baccalaureate category, 3 semester hours in military government (12/68).

AR-1511-0003

FOREIGN AREA OFFICER
(Military Assistance Officer Command and Staff)

Course Number: 7B-F3.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 20-22 weeks (662-685 hours).

Exhibit Dates: 5/72-Present.

Objectives: To train officers in the objectives, concepts, procedures, and techniques applicable to security assistance, stability operations, and politico-military activities throughout the conflict spectrum in the international field.

Instruction: Lectures, seminars, and practical exercises in objectives, concepts, procedures, and techniques applicable to security assistance, stability operations, and politico-military activities throughout the conflict spectrum in the international field, divided into 5 course blocks as follows: (1) Conflict and Social Change, including physical geography and population; social change and personality; culture and institutions; theories of growth and development; industrialization; area orientations for Sub-Saharan Africa, Asia, Latin America, and the Middle East; internal conflict; comparative communism; and political development and legal traditions. (2) National Planning Considerations, including developmental agriculture; strategies; human resources and economic development; community development; development planning and administration; participation in the developmental process by the military, host countries, and organized labor; intelligence and concepts of internal defense; subversive insurgent methodology; population protection and resources management; military estimations for defense; counterguerrilla tactical operations; and analysis of U.S. presence in selected countries during stability operations. (3) Security Assistance and Foreign Policy, including international law; security and intelligence agencies; special forces operations; Indochina case study; status of forces; cultural considerations and communication; press relationships; law in security assistance; assistance cycles and planning; fundamentals of programming; cooperative logistics; assistance from service branches; humanitarian assistance operations; U.S. involvement in international organizations; and Chinese People's Republic and Soviet foreign policy. (4) Civil Military Operations, including PSYOP planning, doctrine, and resources; civil affairs; contingency planning; and civil war military operations applications. (5) Specialized Subjects, including security and foreign policy perspectives; ideology conflicts; progress in the nonindustrialized world; modernization; development planning; policy analysis and resource allocation; congressional perspectives on U.S. foreign policy; urban insurgency movements and countermeasures; relation of various departments and agencies to foreign policy; international law in policy decisions; and national security assistance and the media. NOTE: Students select one of the following electives: graduate college subjects, in-house subjects, independent research, or language.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in international relations, 4 in developmental economics, 6 in political science, 6 in interdisciplinary social science (8/74); in the graduate degree category, a total of 6 semester hours to be selected from the following areas of study: international relations (3 semester hours), developmental economics (3 semester hours), political science (3 semester hours), and interdisciplinary social science (3 semester hours) (8/74). Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future goals and regulations of the admitting institution on transfer credit.

AR-1511-0004

ARMY WAR COLLEGE NONRESIDENT PROGRAM

Course Number: None.

Location: Army War College, Carlisle Barracks, PA.

Length: 104 weeks.

Exhibit Dates: 7/73-Present.

Objectives: To train officers in the social sciences (with emphasis on international relations), in international policy and major world areas, and in military history, strategy, and management.

Instruction: Seminars and individualized reading and student research in the social sciences (with emphasis on international relations), in international policy and major world areas, and in military history, strategy, and management. The program spans two years, with a two-week seminar at the War College at the end of each year of correspondence study. The first year covers the domestic base and the international frame of reference of U.S. politico-military relationships and the cultural, political, and strategic factors which have significance for U.S. politico-military policy, including economics of national security, the bases of Soviet power and its international applications, and the Americas, the People's Republic of China, the states of Asia, and the Pacific area. The second year includes the history and concepts of military strategy and the application of such concepts to present and future problems of military policy and planning; management principles and theory, with applications to defense management; and extensive research on proposed topics.

Credit Recommendation: In the upper-division baccalaureate category, for the first year course work, 15 semester hours in multidisciplinary social science or international relations; for the second year course work, 3 semester hours in management, 9 in advanced military history (8/74); in the graduate degree category, for the first year course work, 9 semester hours in multidisciplinary social science or international relations; for the second year course work, 3 semester hours in management, 6 in advanced military history; for the research paper, 0-3 semester hours based upon the admitting institution's review of the applicant's paper (8/74). It is recommended that the receiving institution delay awarding credit until the student has successfully completed one semester of graduate work. Credit granted for thesis should be contingent upon the graduate school's evaluation of the research paper. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. No credit, undergraduate or graduate, should be given if the entire course is not successfully completed.

AR-1511-0005

U.S. ARMY WAR COLLEGE

Course Number: None.

Location: U.S. Army War College, Carlisle Barracks, PA.

Length: *Version 1:* 45-46 weeks. *Version 2:* 45-46 weeks. *Version 3:* 45 weeks. *Version 4:* 42-45 weeks.

Exhibit Dates: *Version 1:* 8/75-Present. *Version 2:* 8/68-7/75. *Version 3:* 8/67-7/68. *Version 4:* 5/57-7/67.

Objectives: To train officers in the international and domestic factors influencing national security and the achievement of national objectives, and in military contributions and strategy development.

Instruction: Lectures, seminars, readings, and student research in the international and domestic factors influencing national security and the achievement of national objectives, and in military contributions and strategy development.

Credit Recommendation: *Version 1:* In the graduate degree category, for the four courses of the common overview, 6 semester hours in American political, social, and economic issues, 6 in advanced military history and strategy, 6 in American foreign and military policy, 6 in public and business administration and management; 2 semester hours for each elective course completed based on the receiving institution's review of the student's course materials; 3 semester hours for participation in the oral history project; 0-6 semester hours for the research project based on the receiving institution's review of the project paper (1/76). Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. *Version 2:* In the upper-division baccalaureate category, 30 semester hours, with a suggested division as follows: 9 semester hours in U.S. government, 3 in international relations, 9 in U.S. foreign relations, 3 in communist states, 3 in [illegible]eseminar, 3 in management (8/74); in the graduate degree category, 3-12 semester hours in international or public affairs, with the maximum credit to be apportioned as follows: 6 semester hours for the Core Curriculum plus the Military Strategy and Command and Management seminars, 3 in research and thesis; 3 for any combination of two of the following elective courses: Political Systems and National Security (government or political science curriculum), Economics of National Security (economics curriculum), Social Factors and National Security (sociology curriculum), International Law and National Security (international law curriculum), Management Information Systems (business curriculum), Analytical Techniques of Management (business curriculum), and Resource Management and Control (business curriculum) (8/74). Credit granted for thesis should be contingent upon the graduate school's evaluation of the research paper. *Version 3:* In the upper-division baccalaureate category, 6 semester hours in social science survey, 3 in recent history, 3 in economics, 3 in business administration, 3 in political science (including international relations), and credit for the following electives on the basis of institutional examination (NOTE: Maximum credit for each course is 3 semester hours, and credit granted for electives should not exceed 6 semester hours): Communicative Arts (speech curriculum), Political Systems and National Security (government or political science curriculum), Economics of National Security (economics curriculum), Social Factors and National Security (sociology curriculum), International Law and National Security (international law curriculum), Management Information Systems (business curriculum), Analytical Techniques of Management (business curriculum), and Resource Management and Control (business curriculum) (12/68). *Version 4:* In the upper-division baccalaureate category, 6 semester hours in social science survey, 3 in recent history, 3 in economics, 3 in business administration, 6 in political science (including international relations), and credit for the following electives on the basis of institutional examination (NOTE: Maximum credit for each course is 3 semester hours, and credit granted for electives should not exceed 6 semester hours): Communicative arts (speech curriculum), Political Systems and National Security (government or political science curriculum), Economics of National Security (economics curriculum), Social Factors and National Security (sociology curriculum), International Law and National Security (international law curriculum), Management Information System (business curriculum), Analytical Techniques of Management (business curriculum), and Resource Management and Control (business curriculum) (12/68).

AR-1511-0006

1. COMMAND AND GENERAL STAFF OFFICER
2. COMMAND AND GENERAL STAFF OFFICER
3. COMMAND AND GENERAL STAFF OFFICER
4. COMMAND AND GENERAL STAFF OFFICER
   (Command and General Staff Officer Regular)
   (Regular Command and General Staff Officer)

Course Number: *Version 1:* 1-250-C2. *Version 2:* 1-250-C2; 250-A-C2. *Version 3:* 250-A-C2. *Version 4:* 250-A-C2; 250-0-1.

Location: Command and General Staff College, Ft. Leavenworth, KS.

Length: *Version 1:* 38 weeks (1140-1430 hours). *Version 2:* 38 weeks (1143-1344 hours). *Version 3:* 38 weeks (1146 hours). *Version 4:* 38-42 weeks (1146-1252 hours).

Exhibit Dates: *Version 1:* 7/70-8/74. *Version 2:* 4/63-6/70. *Version 3:* 6/62-3/63. *Version 4:* 7/54-5/62.

Objectives: To train officers in U.S. military strategy, elements of national power, management, national security policy planning, and international relations.

Instruction: Lectures, practical exercises, seminars, and student research in U.S. military strategy, elements of national power, management, national security policy planning, and international relations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 30 semester hours (to be apportioned by the receiving institution) in the areas of history, political science, international relations, and management (8/74); in the graduate degree category, 3 semester hours in international relations and U.S. national security policy, 3 in international relations (comparative government), 3-6 in public administration and management (exact amount to be determined by a qualifying examination), 0-6 in research and thesis, 3 as an elective in operations research/systems analysis within a public administration or business management curriculum, and 3 in advanced logistics management within a specialized program of military administration and management (8/74). Credit granted for thesis should be contingent upon the graduate school's evaluation of the research paper. Recommendations are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. *Version 2:* In the upper-division baccalaureate category, 9 semester hours in business organization and management, 3 in political science (including international relations) (8/74). *Version 3:* In the upper-division baccalaureate category, 9 semester hours in business organization and management, and credit in political science and international relations on the basis of institutional examination (12/68). *Version 4:* In the upper-division baccalaureate category, 9 semester hours in business organization and management (12/68).

AR-1511-0007

COUNTERINSURGENT OPERATIONS
(Counterinsurgency Operations)

Course Number: 2E-F9; 33-G-F6.

Location: Special Warfare School, Ft. Bragg, NC.

Length: 8-10 weeks (357-515 hours).

Exhibit Dates: 5/64-12/68.

Objectives: To provide students with a general knowledge of counterinsurgency operations.

Instruction: Lectures and practical exercises in insurgent problems; concepts and doctrine for counterinsurgency; and tactics and techniques and their application to counterinsurgency operations.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in political science (7/74).

AR-1511-0008

CIVIL AFFAIRS IN THE COLD WAR

Course Number: 41-A-F6.

Location: Civil Affairs School, Ft. Gordon, GA.

Length: 4 weeks (149 hours).

Exhibit Dates: 5/61-12/68.

Objectives: To provide commissioned officers with a general knowledge about the civil affairs aspects of the Cold War.

Instruction: Lectures and seminars in Sino-Soviet Cold War activities; democratic systems, agencies, and policies; Cold War organization and programs; plans and programs for Cold War operations; insurgency and counterinsurgency activities.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in political science (including international relations) (7/74).

AR-1511-0009

COUNTERINSURGENCY AND SPECIAL WARFARE STAFF OFFICER

Course Number: 33-G-F7.

Location: Special Warfare School, Ft. Bragg, NC.

Length: 4 weeks (139 hours).

Exhibit Dates: 10/63-12/68.

Objectives: To provide personnel with general information and knowledge on the latest doctrine and concepts of special warfare and counterinsurgency operations.

Instruction: Lectures and practical exercises in guerrilla warfare and Special Forces operations, counterinsurgency and psychological operations, and world politics.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in political science (7/74).

AR-1511-0010

CIVIL AFFAIRS OFFICER ADVANCED
(NONRESIDENT/RESIDENT)

Course Number: 5-41-C23; 5D-48D; 500-F4.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 6 weeks (197-201 hours).

Exhibit Dates: 7/76-Present.

Objectives: To prepare officers for civil affairs duties on battalion through brigade staffs and as advisors in support of internal defense and development operations.

Instruction: Lectures and practical exercises in history and current concepts and principles of civil affairs; organization of civil affairs functions in U.S. government; place of civil affairs in international relations and international law; comparative government and law; development theory and practice; public administration and civil affairs in typical conflict situations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in international relations and military tactics for persons completing all three resident sections of the course (2/80).

AR-1512-0001

1. Psychological Operations Officer
2. Psychological Operations Officer
   (Psychological Operations Unit Officer)
3. Psychological Operations Unit Officer (Modified)
   (Psychological Operations Officer)

Course Number: *Version 1:* 3A-48B. *Version 2:* 3A-9305-A; 3A-9305. *Version 3:* 3A-9305-A; 3A-9305.

Location: *Version 1:* Institute for Military Assistance, Ft. Bragg, NC. *Version 2:* Institute for Military Assistance, Ft. Bragg, NC. *Version 3:* Special Warfare School, Ft. Bragg, NC.

Length: *Version 1:* 10-12 weeks (338-401 hours). *Version 2:* 12 weeks (555-585 hours). *Version 3:* 10-12 weeks (500-591 hours).

Exhibit Dates: *Version 1:* 10/77-Present. *Version 2:* 8/72-9/77. *Version 3:* 2/64-7/72.

Objectives: To train officers for command and staff positions in psychological operations teams in foreign countries.

Instruction: Lectures and practical exercises in psychological operations doctrine, concepts, procedures, organization, capabilities, and employment in support of military operations; analysis of foreign audiences; propaganda media development, production, and employment; and psychological operations effectiveness evaluation.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in cross-cultural communications, including sociology (2/80). *Version 2:* In the upper-division baccalaureate category, 9 semester hours in cross-cultural communications, including anthropology, social psychology, and sociology (5/74). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in social psychology, and credit in communications on the basis of institutional evaluation (12/68).

AR-1512-0002

Psychological Operations Enlisted

Course Number: *All Versions:* 244-F6. *Version 2:* 33-R-F11.

Location: *Version 1:* Institute for Military Assistance, Ft. Bragg, NC. *Version 2:* Special Warfare School, Ft. Bragg, NC.

Length: *Version 1:* 2 weeks (70-72 hours). *Version 2:* 3-4 weeks (108-140 hours).

Exhibit Dates: *Version 1:* 9/71-Present. *Version 2:* 5/64-8/71.

Objectives: To train enlisted personnel to assist in the development and dissemination of propaganda information.

Instruction: Lectures and practical exercises in propaganda information development and dissemination, including psychological operations introduction, factors of human behavior and social organization, propaganda theory, intelligence for psychological operations, and planning and media use.

Credit Recommendation: *All Versions:* Credit is not recommended because of the limited technical nature of the course (5/74). *Version 2:* In the upper-division baccalaureate category, credit in social psychology on the basis of institutional evaluation (12/68).

Related Occupation Codes: 11F; 32H; 35B; 71B; 71Q; 71R; 71L; 81E; 83D; 83F; 83Z; 84D; 84F; 96B; 04B; 04C; 00Z; 96C.

AR-1512-0003

Psychological Operations Staff Officer

Course Number: *Version 1:* 3A-F28. *Version 2:* 3A-9305-B.

Location: *Version 1:* Institute for Military Assistance, Ft. Bragg, NC; Special Warfare School, Ft. Bragg, NC.

Length: *Version 1:* 10 weeks (340 hours). *Version 2:* 15 weeks (532 hours).

Exhibit Dates: *Version 1:* 9/71-Present. *Version 2:* 5/68-8/71.

Objectives: To train commissioned officers with baccalaureate degrees to be psychological operations staff officers in major units and headquarters.

Instruction: Lectures and practical exercises in psychological operations concepts, propaganda media, social science, US policy and US agencies supporting psychological operations, foreign propaganda, and internal defense development doctrine and techniques.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in political science (5/74). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in social psychology, and credit in political science on the basis of institutional evaluation (12/68).

AR-1512-0004

Clinical Psychology Procedures
(Clinical Psychology Enlisted)

Course Number: 302-91G20; 8-R-915.1; 8-E-16.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 7-8 weeks (280-352 hours).

Exhibit Dates: 11/55-12/68.

Objectives: To train enlisted personnel in clinical psychology procedures.

Instruction: Lectures and practical exercises in neuropsychiatric nursing, neuropsychiatry, personality development, psychology, and social work.

Credit Recommendation: In the vocational certificate category, 3 semester hours in psychology, 3 in tests and measurement, and additional credit in psychology on the basis of institutional examination for social worker or occupational therapy students (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in psychology, 3 in tests and measurement, and additional credit in psychology on the basis of institutional examination for social worker or occupational therapy students (7/74); in the upper-division baccalaureate category, 3 semester hours in abnormal psychology (12/68).

AR-1512-0005

Military Assistance Training Advisor Psychological Operations Orientation

Course Number: None.

Location: Special Warfare School, Ft. Bragg, NC.

Length: 6 weeks (206-225 hours).

Exhibit Dates: 2/66-12/68.

Objectives: To train commissioned officers as psychological operations advisors in the Republic of Vietnam.

Instruction: Lectures and practical exercises in the performance of psychological operations in the Republic of Vietnam, including area study, psychological operations, counterinsurgency operations, civil affairs, analysis of current propaganda, psychological operations planning, and the theory and practice of communism.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social psychology on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in social psychology on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 2 semester hours in social psychology (12/68).

AR-1512-0006

Behavioral Science Specialist
(Social Work/Psychology Procedures)

Course Number: 302-91G10; 302-91G20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Medical Field Service School, Ft. Sam Houston, TX.

Length: *Version 1:* 10 weeks (369 hours). *Version 2:* 10 weeks (440 hours). *Version 3:* 8 weeks (352 hours). *Version 4:* 10 weeks (440 hours).

Exhibit Dates: *Version 1:* 2/76-Present. *Version 2:* 8/72-1/76. *Version 3:* 4/72-7/72. *Version 4:* 2/67-3/72.

Objectives: To train enlisted personnel in social, psychological, and psychiatric principles applicable to military problems.

Instruction: *All Versions:* Lectures and practical exercises in social, psychological, and psychiatric principles, including organization and ethics of medicine; childhood, adolescent, and adult behavior development; basic sociology and group concepts; culture and society; personality disorders and mental illness; psychological, physiological, and social factors influencing behavior; expressions of mental illness; observation and interviewing techniques, personality and intelligence tests and testing, and administrative procedures. *Version 1:* Includes drug abuse treatment, skill mastery, human development. *Version 2:* Includes behavioral problem areas (race relations, drug abuse, clinical problems) and corrections, crisis intervention, behavior modification, training group participation, and psychological theories. *Version 3:* Includes behavioral problem areas (race relations, drug abuse, clinical problems) and corrections, crisis intervention, behavior modification, and training group participation. *Version 4:* Includes military law and additional administrative procedures, and principles of research.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in sociology, 3 in psychology, 4 in psychological testing, 6 in clinical psychology and counseling (6/77). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in human development, 3 in counseling and testing, 3 in interviewing skills and techniques, 3 in social or abnormal psychology, and 1 in methods of clinical intervention (8/74). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in human development, 3 in counseling and testing, 3 in interviewing skills and techniques, 3 in social or abnormal psychology, 1 in methods of clinical intervention, and 2 in supervised clinical experience (8/74). *Version 4:* In the lower-division baccalaureate/associate degree category, 3 semester hours in human development, 3 in counseling and testing, 3 in interviewing skills and techniques, and 3 in social or abnormal psychology (8/74); in the upper-division baccalaureate category, 3 semester hours in abnormal psychology (12/68).

Related Occupation Codes: 91G.

AR-1512-0007

Reserve Component Psychological Operations
(Nonresident/Resident)

Course Number: 3A-48BB.

Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 4 weeks (144 hours).
Exhibit Dates: 1/77–Present.
Objectives: To train reserve officers for command and staff positions in psychological operations teams in foreign countries.
Instruction: Lectures and practical exercises in psychological operations doctrine, concepts, procedures, organization, capabilities and employment in support of military operations; analysis of foreign audiences; propaganda media development, production and employment and psychological operations effectiveness evaluation.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in cross cultural communications (2/80).

AR-1513-0001

ASSOCIATE CHAPLAIN OFFICER CAREER
Course Number: *Version 1:* 5-16-C23. *Version 2:* 16-A-C23.
Location: Chaplain School, Ft. Hamilton, NY; Chaplain School, Ft. Slocum, NY.
Length: 10 weeks (350–358 hours).
Exhibit Dates: 2/62–12/68.
Objectives: To train commissioned officers and civilians in the administration and operation of special services activities.
Instruction: Lectures and practical exercises in the administration and operation of special services activities, including special subjects, organization and administration, funds and budgets, special services programs, and special activities at major command, army, and theater levels.
Credit Recommendation: In the vocational certificate category, 2 semester hours in guidance and counseling, 3 in contemporary Western religions (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in guidance and counseling, 3 in contemporary Western religions (8/74); in the upper-division baccalaureate category, 2 semester hours in guidance and counseling, 3 in contemporary Western religions (8/74).

AR-1513-0002

PSYCHIATRIC SOCIAL WORK ENLISTED
(Social Work Enlisted)
(Social Work Procedures)
Course Number: 8-R-916.1; 8-E-15.
Location: Medical Service School, Ft. Sam Houston, TX.
Length: 8–16 weeks (352–704 hours).
Exhibit Dates: 1/53–1/67.
Objectives: To train enlisted personnel to assist social workers in obtaining information for individual social histories and to assist in treatments.
Instruction: Lectures and practical exercises in methods of obtaining information for individual social histories and in treatment procedures, including administration and personnel management; orientation to medical terminology; structure and function of the human body; growth and development; diseases; fundamental principles of nursing and observation, with emphasis on neuropsychiatric disorders and behavior abnormalities; case conferences; anxiety and mechanisms of defense; biological, social, cultural, and psychological effects on personality; differentiation between normal and abnormal behavior; and social work orientation, interviewing and data recording, methods of research, and clinical applications involving patient situations.
Credit Recommendation: In the vocational certificate category, 3 semester hours in abnormal psychology, 3 in neuropsychiatric nursing, and 9 in social work (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in abnormal psychology, 3 in neuropsychiatric nursing, and 9 in social work (8/74); in the upper-division baccalaureate category, 3 semester hours in abnormal psychology (12/68).

AR-1513-0003

CIVIC ACTION
Course Number: 5D-F2; 41-I-F7.
Location: Civil Affairs School, Ft. Gordon, GA.
Length: 6 weeks (203 hours).
Exhibit Dates: 7/64–Present.
Objectives: To provide personnel with a working knowledge in planning, developing, programming, and administering military civic action programs and activities.
Instruction: Lectures and practical exercises in internal defense and development; relationship of civil affairs to the functions of government; civil affairs operations; organizations and activities involved in internal defense and development; and military civic action in support of internal defense and development operations.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours as an elective in social studies (7/74).

AR-1513-0004

DISTRICT AND CIVIL AFFAIRS ADVISOR (VIETNAM)
(Civil Affairs Advisor, Vietnam)
Course Number: None.
Location: Civil Affairs School, Ft. Gordon, GA.
Length: 6 weeks (210–216 hours).
Exhibit Dates: 10/65–Present.
Objectives: To prepare personnel to serve as advisors and civil affairs officers in the Republic of Vietnam.
Instruction: Lectures and practical exercises to include fundamentals of insurgency; Republic of Vietnam, United States, and Free World organizations; advisor-counterpart relations and internal defense and development operations.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours as an elective in social science (7/74).

AR-1513-0005

COMMUNITY SERVICE
Course Number: 5H-F1.
Location: *Version 1:* Institute of Administration, Ft. Benjamin Harrison, IN. *Version 2:* Academy of Health Sciences, Ft. Sam Houston, TX.
Length: 2 weeks (72–81 hours).
Exhibit Dates: *Version 1:* 3/78–7/79. *Version 2:* 7/76–2/78.
Objectives: To provide personnel with a working knowledge of concepts, mission, and goals of an Army community service program.
Instruction: *Version 1:* Lectures and practical exercises to orient military and civilian personnel with need for and availability of community human services. *Version 2:* Lectures and practical exercises in program planning and development, program management principles and techniques, and the delivery of human services in response to community needs.
Credit Recommendation: *Version 1:* Credit is not recommended because of the limited, specialized nature of the course (2/80). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in principles and techniques of management, 1 in introduction to sociology (6/77).

AR-1601-0001

MAINTENANCE ENGINEERING ANALYSIS FOR INTEGRATED LOGISTICS SUPPORT
Course Number: None.
Location: Logistics Management Center, Ft. Lee, VA.
Length: 4 weeks (139 hours).
Exhibit Dates: 4/71–Present.
Objectives: To provide maintenance engineers with training in integrated logistics support and system engineering techniques as applied to weapon systems life-cycle management.
Instruction: Lectures and practical exercises in applied integrated logistics support and system engineering, including development, use, and dangers of mathematical simulation support models; maintenance support planning effectiveness; and the purpose and role of maintenance engineering in accomplishing total integrated logistics support.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in industrial engineering (2/74).

AR-1601-0002

DEFENSE SPECTROMETRIC OIL ANALYSIS OPERATOR/EVALUATOR
Course Number: 8B-F28; 491-F2.
Location: Quartermaster School, Ft. Lee, VA.
Length: *Version 1:* 2–5 weeks (87–195 hours). *Version 2:* 1–4 weeks (44-136 hours).
Exhibit Dates: *Version 1:* 7/73–Present. *Version 2:* 6/72–6/73.
Objectives: To train personnel in spectrometric oil analysis.
Instruction: Lectures and practical exercises in the principles, procedures, and operation of fluid analysis spectrometers, and in the techniques used in spectrometric analysis of used oils for wear-metal content, including general concepts and evaluation of spectrometric results, functional groups familiarization and operation of the A/E 35U-3 fluid analysis spectrometer, and operation and component functions of the atomic absorption spectrometer.
Credit Recommendation: *Version 1:* In the vocational certificate category, certificate in chemical or petroleum technology (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in chemical or petroleum technology (6/74). *Version 2:* In the vocational certificate category, certificate in chemical or petroleum technology (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in chemical or petroleum technology (6/74).
Related Occupation Codes: 92C.

AR-1601-0003

PETROLEUM DISTRIBUTION SUPERVISION
Course Number: 821-F1.
Location: Quartermaster School, Ft. Lee, VA.
Length: 6 weeks (210 hours).
Exhibit Dates: 7/67–Present.
Objectives: To train enlisted personnel to supervise the receipt, storage, and issue of petroleum products and the operation of cross-country pipelines.
Instruction: Lectures and practical exercises in the supervision and operation of pe-

troleum pipelines, including general petroleum subjects, pipeline and terminal operations, fuel system supply point, tank vehicles, supervisory performance exercise, gaging and sampling, pump station operation, general laboratory subjects and basic laboratory tests, petroleum supply in the combat zone, and quality surveillance and laboratory operations.

Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in industrial technology (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in industrial technology (6/74).

AR-1601-0004

Forensic Chemist
(Chemical Analyst)

Course Number: None.
Location: Criminal Investigation Laboratory, Ft. Gordon, GA.
Length: 27 weeks (996 hours).
Exhibit Dates: 11/71–12/76.
Objectives: To qualify selected warrant officers and enlisted personnel as forensic chemists accepted as expert witnesses in forensic chemical analysis before judicial proceedings.
Instruction: Subjects include orientation and theory of the spectrum, optical system of spectograph, double and single path prisms, gratings and recording devices, theory and use of absorption spectrum tables, specimen preparation techniques, x-ray diffraction techniques gas ,liquid chromatography including qualitative and quantitative analysis, photomicroscopy, theory of microscopy, light sources, specimen preparations, examinations utilizing flurometry, polarimetry and refractometry, qualitative analysis of enzymes and hemoglobins, study and comparison of hairs, fibers and minerals.
Credit Recommendation: In the upper-division baccalaureate category, 9 semester hours in forensic chemistry or forensic science (4/78).
Related Occupation Codes: 951G; 951C.

AR-1601-0005

Petroleum Storage Specialist, Skill Development Base

Course Number: 821-76W20-I.
Location: Quartermaster School, Ft. Lee, VA.
Length: 12 weeks (427 hours).
Exhibit Dates: 12/68–Present.
Objectives: To train personnel to perform as petroleum storage supervisors.
Instruction: Lectures and practical exercises in petroleum operations, including exercise of command; leadership; internal defense and development; field training; general petroleum subjects; supply point operations; pipeline and terminal operations; chemical, biological, radiological operations; small-unit ambush and counterambush tactics; squad battle drill; petroleum handling equipment and procedures exercise; and pump station operations.
Credit Recommendation: In the vocational certificate category, certificate in mechanical and petroleum technology (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical and petroleum technology (6/74).
Related Occupation Codes: 76W.

AR-1601-0006

Advanced Geodetic Surveyor

Course Number: 4M-F1; 412-F2.
Location: Engineer School, Ft. Belvoir, VA.
Length: 20 weeks (783 hours).
Exhibit Dates: 1/67–11/73.
Objectives: To train warrant officers and senior noncommissioned officers in advanced geodetic survey techniques.
Instruction: Lectures and practical exercises in advanced geodetic surveying techniques, including map compiling, vertical and horizontal control surveys, gravity, astronomic observations, and mathematics.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in geodesy or geodetic astronomy (5/74); in the upper-division baccalaureate category, 6 semester hours in geodesy, 4 in geodetic astronomy (12/68).
Related Occupation Codes: 821A.

AR-1601-0007

Topographic Engineer Officer

Course Number: 4M-7915; 5-A-7915.
Location: Engineer School, Ft. Belvoir, VA.
Length: 12 weeks (409–458 hours).
Exhibit Dates: 1/68–12/73.
Objectives: To provide officers with advanced training in surveying, photogrammetry, and cartography.
Instruction: Lectures and practical exercises in geodetic surveying, triangulation and astronomic observations, gravity surveying, map compilation and reproduction, color separation, care and operation of camera and equipment, and layout and offset press.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in geodetic surveying, photogammetry, or cartography (5/74); in the upper-division baccalaureate category, 3 semester hours in geodetic surveying, 3 in cartography (12/68).

AR-1601-0008

Soils Analysis
(Soils Technician)

Course Number: 491-51G20; 5-R-517.1; 5-E-54.
Location: Engineer School, Ft. Belvoir, VA.
Length: 8–9 weeks (266–396 hours).
Exhibit Dates: 1/53–Present.
Objectives: To train enlisted personnel in analysis of soils, aggregates, concrete and allied construction materials for use in design, control, and evaluation of roads and airfields.
Instruction: Conferences and practical exercises in geology, unified soil classification system, California bearing ratio, various soil tests, horizontal construction emphasizing drainage systems, concrete and bituminous materials properties and testing, and the Marshall stability method of mix design.
Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in general science or credit in soil testing laboratory (9/79); in the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in general science or credit in soil testing laboratory (9/79); in the upper-division baccalaureate category, 4 semester hours as an elective in general science or credit in soil testing laboratory (9/79).
Related Occupation Codes: 51G; 51Q.

AR-1601-0009

Soils Analyst Skill Development Base
(Soils Analyst Noncommissioned Officer (NCO) Candidate)

Course Number: 491-51G20-I.
Location: Engineer School, Ft. Belvoir, VA.
Length: 12 weeks (466–468 hours).
Exhibit Dates: 1/68–Present.
Objectives: To train enlisted personnel in soil analysis.
Instruction: Lectures and laboratory in soil analysis and conditions and construction procedures for concrete. Topics include hydrologic features of the earth; soil exploration; soils compaction; earthwork analysis as it pertains to roads and airfields; and soil engineering problems, including management of flexible pavements and methods for determining runoff. Laboratory and field experiences include performance of soil exploration, inspection techniques, and quality control testing.
Credit Recommendation: In the vocational certificate category, 4 semester hours in soils analysis laboratory (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in soils analysis laboratory (5/74); in the upper-division baccalaureate category, credit in soils analysis laboratory on the basis of institutional examination (12/68).
Related Occupation Codes: 51G.

AR-1601-0010

Construction Surveyor Noncommissioned Officer (NCO)/Supervisor Candidate
(Construction Surveyor Skill Development Base)
(Construction Surveyor Noncommissioned Officer (NCO) Candidate)

Course Number: 412-82B40-I.
Location: Engineer School, Ft. Belvoir, VA.
Length: 14 weeks (559–566 hours).
Exhibit Dates: 1/68–Present.
Objectives: To train personnel to perform as construction surveying supervisors.
Instruction: Lectures and practical exercises in principles and procedures of surveying, including construction layout; supply and administration; combat operations, leadership, and counterinsurgency; combat support operations; protective mine warfare, booby trapping, and field fortifications, command indoctrination; methods of instruction; map reading and land navigation; and instrument adjustment.
Credit Recommendation: In the vocational certificate category, 6 semester hours in construction surveying (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in construction surveying (5/74); in the upper-division baccalaureate category, 3 semester hours in construction surveying (12/68).
Related Occupation Codes: 82B; 82C.

AR-1601-0011

Engineer Graphics Warrant Officer Intermediate

Course Number: 4-5-C30.
Location: Engineer School, Ft. Belvoir, VA.
Length: 6 weeks (213 hours).
Exhibit Dates: 12/70–Present.
Objectives: To train engineer warrant officers who are qualified as photomapping, survey, or map reproduction technicians to manage graphics operations.

Instruction: Lectures and practical exercises in management and its application to graphics operations, including maintenance management, geodetic surveying, photogrammetry, reproduction, topographic management, automatic data processing, signal communications, and weapons training and mine warfare.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in geodetic surveying and photogrammetry (5/74); in the upper-division baccalaureate category, 2 semester hours in geodetic surveying and photogrammetry (5/74).

Related Occupation Codes: 811A.

AR-1601-0012

Terrain Analyst Skill Development Base

(Terrain Analyst Noncommissioned Officer (NCO) Candidate)

Course Number: 491-51Q20-I.

Location: Engineer School, Ft. Belvoir, VA.

Length: 14 weeks (523 hours).

Exhibit Dates: 4/68–Present.

Objectives: To train enlisted personnel who are qualified as soils analysts to perform as terrain analysis supervisors and technicians.

Instruction: Lectures and practical exercises in the duties of terrain analysis supervisors and technicians, including map reading, aerial photograph interpretation (soil and land form identification), preparation of slope maps, amphibious operations, leadership and counterinsurgency, combat operations, and analysis of various terrains.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in air photographic soil interpretation (5/74); in the upper-division baccalaureate category, 6 semester hours in air photographic soil interpretation (5/74).

Related Occupation Codes: 51G; 51Q.

AR-1601-0013

1. Combat Engineering (12-CMF) Noncommissioned Officer (NCO) Advanced
2. Combat Engineering (CE-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: *Version 1:* 0-12-C42. *Version 2:* 0-CE-C42.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 10 weeks (325–326 hours). *Version 2:* 12 weeks (379 hours).

Exhibit Dates: *Version 1:* 4/77–Present. *Version 2:* 6/72–3/77.

Objectives: To train selected enlisted personnel in construction engineering to support combat operations.

Instruction: *Version 1:* Conferences, seminars, and demonstrations in construction engineering to support combat operations including general duties, field engineering, combat operations, tactical engineering such as camouflage, bunkering, demolitions, bridging, barrier and denial operations, combat construction management employing CPM for projects utilizing bituminous surface treatment equipment, earthworming equipment, lifting and trading equipment, soil properties, horizontal and vertical construction for Track A programs. Track B program is similar to Track A except ADM operations are substituted for soils and vertical construction projects. *Version 2:* Lectures and practical exercises in construction engineering, including management, map reading, soils engineering, concrete mixes, reinforcement and form work, bridges and bridge classification, building structures, critical path methods, construction equipment utilization, demolition, and combat engineering.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic (general) construction for Track A or Track B (9/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in general construction management for Track A or Track B (9/79); in the upper-division baccalaureate category, 4 semester hours in construction management for Track A; 3 semester hours in construction management for Track B (9/79). *Version 2:* In the vocational certificate category, 2 semester hours in general construction (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in general construction (5/74); in the upper-division baccalaureate category, 3 semester hours in general construction (5/74).

Related Occupation Codes: 12B; 12C; 12D; 12E; 12F.

AR-1601-0014

Engineer Noncommissioned Officer (NCO)

Course Number: 710-F1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 14–16 weeks (551–586 hours).

Exhibit Dates: 5/66–Present.

Objectives: To train noncommissioned officers to supervise general construction.

Instruction: Lectures and practical exercises in construction surveys, sketching and drawings; rigging; explosives and demolition; floating equipage; soils and geology; roads and airfields; flexible pavements, concrete mix design and framework; bridges and bridge classification; buildings and construction; and construction management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in engineering construction (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in engineering construction (5/74); in the upper-division baccalaureate category, 3 semester hours in engineering construction (12/68).

Related Occupation Codes: 12B; 12C; 12D; 12E; 12F; 12Z; 00Z; 81B; 82B; 51B; 51C; 51D; 51E; 51G; 51F; 51H; 51J; 51K; 51L; 51N; 51P; 51R; 53B; 53C; 62D; 62E; 62F; 62G; 62H; 62J; 62K; 62L; 62M; 62N; 52B; 52C; 52D; 52E.

AR-1601-0015

Multiplex Map Compiling

Course Number: 5-E-21.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (370–400 hours).

Exhibit Dates: 1/54–12/68.

Objectives: To train enlisted personnel in the theory and techniques of map compiling.

Instruction: Lectures and practical exercises in map preparation using multiplex equipment, including introduction to multiplex mapping, principles of multiplex, operation of multiplex, extension of control, multiplex mapping problem, aerial cameras, aerial photos, photogrammetry and stereoscopy, reduction printing, multiplex equipment, optical principles, logical contouring, control, projections and girds, and interior orientation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in aerial mapping (5/74); in the upper-division baccalaureate category, 4 semester hours in aerial mapping (12/68).

AR-1601-0016

Artillery Survey Noncommissioned Officer (NCO)

Course Number: 412-F1; 6-R-F34.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 4 weeks (148–157 hours).

Exhibit Dates: 4/64–12/68.

Objectives: To train personnel to supervise, coordinate, and participate in the operations of an artillery survey party, battery detail, or survey information center.

Instruction: Lectures and practical exercises in artillery survey, including mathematics, survey computations with the MSR, maps, use of UTM grid reference and grid coordinates, restitution, map and aerial photograph reading, equipment, traverse methods and computations, traverse adjustment, triangulation, astronomy, artillery battalion survey, division artillery survey, corps artillery survey, and demonstrations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in general surveying (5/74); in the upper-division baccalaureate category, 2 semester hours in general surveying (12/68).

AR-1601-0017

1. Engineer Officer Advanced
2. Engineer Officer Advanced
3. Engineer Officer Career
4. Engineer Officer Advanced

Course Number: *Version 1:* 4-5-C22. *Version 2:* 4-5-C22. *Version 3:* 4-5-C22; 5-A-C22. *Version 4:* 5-A-C4; 5-O-3.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 26 weeks (796–797 hours). *Version 2:* 32 weeks (1003–1077 hours). *Version 3:* 23–29 weeks (809–830 hours). *Version 4:* 39 weeks (1306–1313 hours).

Exhibit Dates: *Version 1:* 8/75–Present. *Version 2:* 6/67–7/75. *Version 3:* 6/61–5/67. *Version 4:* 7/56–5/61.

Objectives: To train commissioned officers in training management and selected topics of a general nature.

Instruction: and practical exercises in civil engineering, including geology, soils, roads, airfields, drainage, flexible and rigid pavements, construction management, bridges, utilities, mapping, automatic data processing, and electives program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in introductory civil engineering (9/79); in the upper-division baccalaureate category, 3 semester hours in business organization and management (9/79) *Version 2:* In the lower-division baccalaureate/associate degree category, 15 semester hours in civil engineering (5/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in engineering (12/68). *Version 3:* In the lower-division baccalaureate/associate degree category, 12 semester hours in civil engineering (5/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in engineering construction (12/68). *Version 4:* In the vocational certificate category, 3 semester hours in administrative management (8/74); in the lower-division baccalaureate/associate degree category, 27 semester hours in civil engineering and 3 in administrative management (8/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management and 3 in engineering construction (12/68).

AR-1601-0018

Combat Engineering, Bridging, and Construction Supervision

Course Number: 5-E-65.

Location: Engineer School, Ft. Belvoir, VA.

Length: 15 weeks (537 hours).

Exhibit Dates: 4/56–12/68.

Objectives: To train enlisted personnel who are qualified as combat engineers, bridge or structure specialists, or masons to plan, control, and supervise combat construction and demolition operations.

Instruction: Lectures and practical exercises in the planning, control, and supervision of combat construction and demolition operations, including assembly, maintenance, and dismantling of fixed bridges, floating bridges, rafts, and ferries; construction and repair of structures and routes of communication; demolition; mine warfare activities; concrete and bituminous construction; rigging maintenance; electrical construction; drawings and aerial photographs reading; and construction tools and equipment.

Credit Recommendation: In the vocational certificate category, 8 semester hours in construction technology (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in construction technology (5/74); in the upper-division baccalaureate category, credit in engineering or construction on the basis of institutional evaluation (12/68).

AR-1601-0019

Special Forces Engineer Training

Course Number: 030-F1.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 5 weeks (158 hours). *Version 2:* 6 weeks (215–223 hours). *Version 3:* 7 weeks (265 hours).

Exhibit Dates: *Version 1:* 1/70–Present. *Version 2:* 8/67–12/69. *Version 3:* 10/66–7/67.

Objectives: To train Special Forces engineers in engineering tactics, techniques, equipment, and materials.

Instruction: *All Versions:* Lectures and practical exercises in Special Forces engineer training, including floating equipage, geology and soils, engineer construction, construction surveys, and utilization and maintenance of engineer equipment. *Version 1:* Topics include construction management and concrete design. *Version 2:* Topics include flexible pavements. *Version 3:* Topics include flexible pavements, sketchings and drawings, and fundamentals of combat operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in engineering construction (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in engineering construction (5/74); in the upper-division baccalaureate category, 2 semester hours in engineering construction (5/74). *Version 2:* In the vocational certificate category, 1 semester hour in engineering construction (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in engineering construction (5/74); in the upper-division baccalaureate category, 2 semester hours in engineering construction (12/68). *Version 3:* In the vocational certificate category, 2 semester hours in engineering construction (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in engineering construction (5/74); in the upper-division baccalaureate category, 2 semester hours in engineering construction (12/68).

Related Occupation Codes: 12B.

AR-1601-0020

Topography and Printing (TP-CMP) Noncommissioned Officer (NCO) Advanced

Course Number: 4-TP-C42.

Location: Engineer School, Ft. Belvoir, VA.

Length: 12 weeks (379 hours).

Exhibit Dates: 7/72–Present.

Objectives: To train enlisted personnel who have a working knowledge of topography and printing to perform as cartographic draftsmen, map compilers, model makers, topographic computers, and surveyors, offset pressmen, or photolithographic chiefs.

Instruction: Lectures and practical exercises in advanced topography, printing, and management, including mathematics, leadership principles, field engineering, combat and combat support operations, topographic engineering, geodetic surveying, map reproduction and distribution, and production supervision. Electives offered in psychology, data processing, economics, constitutional government, military equipment, refrigeration, electrical physics, and electro-hydraulics.

Credit Recommendation: In the vocational certificate category, 4 semester hours in civil technology (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in civil technology (5/74); in the upper-division baccalaureate category, 6 semester hours as an elective in engineering (5/74).

Related Occupation Codes: 51Q; 81C; 81D; 81E; 81F; 82D; 82E; 83F.

AR-1601-0021

Topography and Printing (TP-CMF) Noncommissioned Officer(NCO) Basic

(Topographic Engineering and Map Reproduction(81-CMF) NCO Basic)

Course Number: 4-81-C40; 4-TP-C40.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 7–8 weeks (210–243 hours). *Version 2:* 12 weeks (379 hours).

Exhibit Dates: *Version 1:* 8/75–5/78. *Version 2:* 6/72–7/75.

Objectives: To qualify enlisted personnel who have basic training in topography and printing as noncommissioned officers with duties in the following areas: cartographic draftsman, map compiler, model maker, topographic surveyor, topographic computer, offset pressman and photolithography chief.

Instruction: Lectures and practical exercises in topography and printing, including mathematics, leadership and management, field engineering, combat and combat support, topographic engineering and computing, map reproduction and distribution, cartography and photogrammetry. Electives in psychology, data processing, economics and U.S. constitutional government, and military equipment, refrigeration, electrical physics, electro-hydraulics, slide rule construction, blueprint reading, and field adjustments of survey instruments.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in topographic shop supervision (12/78). *Version 2:* In the vocational certificate category, 4 semester hours in civil technology (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in civil technology (5/74); in the upper-division baccalaureate category, 3 semester hours as an elective in engineering (5/74).

Related Occupation Codes: 81A; 81C; 81E; 82D; 82E; 41B; 83D; 83E; 83F; 41K.

AR-1601-0022

Topographic Surveying

Course Number: 412-82D20; 5-E-9.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (368–400 hours).

Exhibit Dates: 3/53–11/73.

Objectives: To train enlisted personnel in topographic surveying.

Instruction: Lectures and practical exercises in all methods of surveying, production of topographic maps and establishment of ground control data, including mathematics, theodolites, leveling, traverses, triangulation, taping, notebook keeping, symbols, photographic interpretation, elevation and relief, and equipment maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in general or topographic surveying (5/74); in the upper-division baccalaureate category, 6 semester hours in general surveying, 3 in topographic surveying (12/68).

Related Occupation Codes: 82D.

AR-1601-0023

Topographic Computing

Course Number: 412-82E20; 5-E-10.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 11 weeks (395 hours). *Version 2:* 16 weeks (602–616 hours).

Exhibit Dates: *Version 1:* 7/70–11/72. *Version 2:* 2/56–6/70.

Objectives: To train enlisted personnel in topographic mapping.

Instruction: Lectures and practical exercises in topographic mapping, including declination, dimensions of map sheets, coordinates, horizontal taping, electronic distance measurements, grid azimuth and triangulations, resections, geographic traverses, astronomic azimuths, and latitudes and longitudes.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 8 semester hours in geodetic surveying and computations (5/74); in the upper-division baccalaureate category, 6 semester hours in geodetic surveying and computations (5/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 12 semester hours in geodetic surveying and computations (5/74); in the upper-division baccalaureate category, 6 semester hours in geodetic computations, and credit in mathematics and field astronomy on the basis of institutional evaluation (12/68).

Related Occupation Codes: 82E.

AR-1601-0024

Construction Surveying

Course Number: *All Versions:* 412-82B20. *Version 2:* 5-E-8.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 11 weeks (414 hours). *Version 2:* 10 weeks (368–376 hours).

Exhibit Dates: *Version 1:* 7/71–6/72. *Version 2:* 2/56–6/71.

Objectives: To train enlisted personnel in plane surveying fundamentals.

Instruction: Lectures and practical exercises in plane surveying fundamentals, including surveying equipment use and adjustment, taping, planetable mapping, road surveys, earthwork estimations, and airfield construction.

Credit Recommendation: *Version 1:* In the vocational certificate category, 11 semester hours in general surveying (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in general surveying (5/74); in the upper-division baccalaureate category, 4 semester hours in general surveying, 2 in construction surveying (5/74). *Version 2:* In the vocational certificate category, 10 semester hours in general surveying (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in general surveying (5/74); in the upper-division baccalaureate category, 6 semester hours in general surveying, 3 in construction surveying (12/68).

Related Occupation Codes: 82B.

AR-1601-0025

ARTILLERY FLASH RANGING ADVANCED

Course Number: 6-R-154.1; 6-R-101.1; 6-E-11.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 6 weeks (224–229 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train enlisted personnel to install and to operate a field artillery flash-ranging unit and be able to determine precise positions by observing smoke, flash, or gunfire.

Instruction: Lectures and practical exercises in the operation of an artillery flash-ranging unit at the advanced level. Topics include the maintenance, installation, and operation of flash-ranging equipment; use of slide rules, basic trigonometry; and gunnery.

Credit Recommendation: In the upper-division baccalaureate category, credit in surveying on the basis of institutional examination (12/68).

AR-1601-0026

AIR BASE CONSTRUCTION

Course Number: 5-O-11.

Location: Engineer School, Ft. Belvoir, VA.

Length: 6 weeks (226 hours).

Exhibit Dates: 7/55–12/68.

Objectives: To train commissioned officers in the technical aspects of military airfield construction.

Instruction: Lectures and practical exercises in the technical aspects of military airfield construction. Course includes layout, drainage, construction survey, earthwork calculations, mass diagram, portable surfaces, construction scheduling, soil mechanics, asphalt and portland cement concretes, structures and utilities layout, pit and quarry operations, and maintenance and supervision of construction equipment and procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in construction engineering (7/74); in the upper-division baccalaureate category, 3 semester hours in engineering construction (12/68).

AR-1601-0027

FIELD ARTILLERY TARGET ACQUISITION OFFICER

(Artillery Target Acquisition Officer)
(Artillery Observation)

Course Number: 2G-1183; 2E-13D; 2E-1154; 6-A-1154; 6-O-12.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 9–12 weeks (325–482 hours).

Exhibit Dates: 12/55–5/75.

Objectives: To train officers in sound-ranging, flash-ranging, and observation battalion survey techniques.

Instruction: Lectures and practical exercises in field artillery radar, ballistic meteorology, surveying, care and use of surveying instruments, traverse computations, triangulations, grid systems, taping, and astronomy.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in surveying (7/74).

AR-1601-0028

ENGINEER CONSTRUCTION OFFICER

(Construction Planning and Operations)
(Construction Planning and Management)

Course Number: 4A-F1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 3 weeks (105–119 hours).

Exhibit Dates: 12/65–Present.

Objectives: To train commissioned officers in construction supervision.

Instruction: Lectures and practical exercises in construction supervision, including structures and utilities, roads and airfields, management techniques, and construction equipment utilization.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in construction (management) (9/79).

AR-1601-0029

ENGINEER OFFICER CANDIDATE

Course Number: 4-5-F1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 23 weeks (920–1021 hours).

Exhibit Dates: 3/66–Present.

Objectives: To train officers for duty in the Corps of Engineers.

Instruction: Lectures and practical exercises in the functions of officers in the Corps of Engineers, including camouflage, engineer reconnaissance, roads and airfields, fixed bridges and bridge classification, maintenance management and equipment utilization, weapons training, combat operations, field fortifications, floating equipage, tools and rigging, map reading and land navigation, and combat engineer practical exercise.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 11 semester hours in civil engineering (7/74); in the upper-division baccalaureate category, 7 semester hours in civil engineering (7/74), and additional credit in advanced military science at institutions which regularly offer such credit (12/68).

AR-1601-0030

PETROLEUM PRODUCTS ANALYSIS

(Petroleum Products Analysis, Enlisted)

Course Number: 491-92C20; 10-R-903.1; 10-E-22.

Location: Quartermaster School, Ft. Lee, VA.

Length: 11–14 weeks (382–490 hours).

Exhibit Dates: 9/54–Present.

Objectives: To train enlisted personnel in the principles and procedures of laboratory testing and analysis of petroleum products, and in the operation and maintenance of CFR test engines.

Instruction: Lectures and practical exercises in petroleum products analysis, including general petroleum subjects and basic laboratory tests, physical test of light and heavy distillates and greases, standardization of chemical solutions and titration techniques, CFR test engine orientation, chemical laboratory test, identification laboratory tests, military quality surveillance facilities, calibration and maintenance of laboratory equipment, identification of unknowns, and petroleum storage and supply.

Credit Recommendation: In the vocational certificate category, 6 semester hours in laboratory testing of petroleum products (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in laboratory testing of petroleum products, 3 in physical science (7/74); in the upper-division baccalaureate category, 4 semester hours in laboratory testing of petroleum products, 3 in physical science (7/74).

Related Occupation Codes: 92C.

AR-1601-0031

PETROLEUM PRODUCTS ANALYSIS, OFFICER

Course Number: *Version 1:* 10-A-7381. *Version 2:* 10-OE-22.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 8 weeks (283 hours). *Version 2:* 14 weeks (490 hours).

Exhibit Dates: *Version 1:* 8/57–12/68. *Version 2:* 7/55–7/57.

Objectives: To train officers in the principles and procedures used in the laboratory testing and analysis of petroleum products.

Instruction: Lectures and practical exercises in petroleum products analysis, including general petroleum subjects, physical and chemical tests of petroleum products, CFR orientation, petroleum testing program, and laboratory management.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in laboratory testing of petroleum products (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in laboratory testing of petroleum products (7/74); in the upper-division baccalaureate category, 3 semester hours in petroleum products (12/68). *Version 2:* In the lower-division baccalaureate/associate degree category, 4 semester hours in laboratory testing of petroleum products (6/74); in the upper-division baccalaureate category, 4 semester hours in laboratory testing of petroleum products (12/68).

AR-1601-0032

1. ARMY AIR DEFENSE BATTERY OFFICER
2. AAA AND SURFACE-TO-AIR MISSILE BATTERY OFFICER

Course Number: *Version 1:* 44-A-C2. *Version 2:* 44-O-1.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 23–27 weeks (897–1017 hours). *Version 2:* 30 weeks (1158 hours).

Exhibit Dates: *Version 1:* 7/57–12/68. *Version 2:* 5/56–6/57.

Objectives: To qualify officers as artillery officers.

Instruction: Lectures and practical exercises in map reading and surveying, introduction to electronics, air defense artillery and missile systems, and tactics and operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in introduction to surveying (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to surveying (7/74). *Version 2:* In the vocational certificate category, 3 semester hours in electrical theory, 2 in introduction to surveying (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical theory, 1 in introduction to surveying (7/74).

AR-1601-0033

Artillery Survey Officer

Course Number: *All Versions:* 2G-1183. *Version 2:* 6-A-1183; 6-O-11.

Location: *Version 1:* Field Artillery School, Ft. Sill, OK. *Version 2:* Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 7 weeks (253 hours). *Version 2:* 7–8 weeks (275–308 hours).

Exhibit Dates: *Version 1:* 6/73–7/75. *Version 2:* 12/55–5/73.

Objectives: To train commissioned officers in reconnaissance and survey procedures.

Instruction: Lectures and practical exercises in reconnaissance and survey procedures, including target acquisition, mathematics, maps, survey equipment, traverse, triangulation, astronomy, field artillery battalion and division artillery survey, and corps artillery survey.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in surveying (7/74); in the upper-division baccalaureate category, 4 semester hours in surveying (7/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in surveying (7/74); in the upper-division baccalaureate category, 5 semester hours in general surveying (12/68).

AR-1601-0034

1. Artillery Survey Specialist
2. Artillery Survey Specialist
3. Artillery Survey Advanced

Course Number: *Version 1:* 412-82C10; 412-82C20; 412-153.1. *Version 2:* 6-R-153.1. *Version 3:* 6-E-16; 6-R-153;1 6-R-145.2.

Location: *Version 1:* Field Artillery School, Ft. Sill, OK. *Version 2:* Artillery and Missile School, Ft. Sill, OK. *Version 3:* Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 6–9 weeks (162–348 hours). *Version 2:* 5 weeks (205 hours). *Version 3:* 8–9 weeks (295–322 hours).

Exhibit Dates: *Version 1:* 1/66–Present. *Version 2:* 7/64–12/65. *Version 3:* 3/56–6/64.

Objectives: To train enlisted personnel as artillery surveyors or artillery surveyor specialists.

Instruction: *All Versions:* Lectures and practical exercises in surveying, including mathematics, maps, equipment, traverse, triangulation, astronomy, military applications, artillery battalion survey. *Version 1:* Topics include higher-echelon survey. *Version 2:* Topics include corps artillery survey. *Version 3:* Topics include division and corps artillery survey.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in surveying (7/74); in the upper-division baccalaureate category, 5 semester hours in surveying (12/68). *Version 2:* In the lower-division baccalaureate/associate degree category, 4 semester hours in surveying (7/74); in the upper-division baccalaureate category, 3 semester hours in surveying (12/68). *Version 3:* In the lower-division baccalaureate/associate degree category, 6 semester hours in surveying (7/74); in the upper-division baccalaureate category, 5 semester hours in surveying (12/68).

Related Occupation Codes: 82C.

AR-1601-0035

Engineer Officer Advanced

Course Number: 5-A-C4; 5-O-3.

Location: Engineer School, Ft. Belvoir, VA.

Length: 39 weeks (1306–1313 hours).

Exhibit Dates: 7/56–6/60.

Objectives: To train officers to perform as engineering officers.

Instruction: Lectures and practical exercises in the duties of an engineering officer. Course includes military subjects, engineering project planning; scheduling; management and construction of bridges and bridge components, roads, airfields, and other public works facilities; equipment utilization; soil classification; pavement design; construction material and terrain evaluation; effective writing; organization; facilities; and supply management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in administrative management (8/74); in the lower-division baccalaureate/associate degree category, 27 semester hours in civil engineering, 3 in administrative management (8/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management, 3 in engineering construction (12/68).

AR-1601-0036

Associate Engineer Officer Advanced

Course Number: 5-O-4.

Location: Engineer School, Ft. Belvoir, VA.

Length: 15–16 weeks (571–594 hours).

Exhibit Dates: 6/55–6/60.

Objectives: To train commissioned officers as commanders and staff officers of engineering battalions.

Instruction: Lectures and practical exercises on the responsibilities of field grade officers in the Corps of Engineers, including fundamentals of combat operations, combined-arms operations, special weapons officer training, logistics, protective construction, camouflage, soils engineering and geology, troop construction management, public works, maintenance and effective utilization of engineer equipment, CBR water contamination removal, fixed bridges, staff functions, troop construction management, mapping and map supply, map and aerial photograph reading, and floating stream-crossing equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in civil engineering (7/74); in the upper-division baccalaureate category, 3 semester hours in engineering construction, 2 in business organization and management (12/68).

AR-1601-0037

Artillery Calibration

Course Number: 9-R-422.2.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (280 hours).

Exhibit Dates: 4/57–12/68.

Objectives: To train enlisted personnel to perform artillery callibrations.

Instruction: Lectures and practical exercises in artillery calibration, including ballistics fundamentals, artillery ammunition, geometric considerations in placement, air density problems, and transit operation.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in civil technology (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in civil technology (8/74).

AR-1601-0038

Skysweeper Maintenance

Course Number: 44-E-17.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 4 weeks (138 hours).

Exhibit Dates: 10/56–12/68.

Objectives: To train enlisted personnel to maintain small arms and Skysweeper guns.

Instruction: Lectures and practical exercises in maintenance of small arms and Skysweeper guns. Course includes light antiaircraft artillery weapons, including .50 cal. machine gun, AAA generator sets, 15-mm gun and mount, loader-rammer M17, and inspection and fire control of weapons.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in industrial or mechanical technology (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in industrial or mechanical technology (8/74).

AR-1601-0039

Automatic Weapons Maintenance (Light Antiaircraft Artillery Maintenance)

Course Number: 44-E-18.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 4–7 weeks (140–229 hours).

Exhibit Dates: 10/55–12/68.

Objectives: To train enlisted personnel to maintain unit small arms and twin 40-mm guns (M42).

Instruction: Lectures and practical exercises in the maintenance of small arms and twin 40-mm guns (M42). Course includes fundamentals of AAA weapons, multiple .50 caliber machine guns, M45 mounts, self-propelled twin 40-mm guns, small arms (.30 cal. carbines, .30 cal. rifles, 3.5 inch rocket launchers), and inspection and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in industrial or mechanical technology (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in industrial or mechanical technology (8/74).

AR-1601-0040

Smoke Generation Supervision

Course Number: 3-R-532.7.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 4 weeks (148 hours).

Exhibit Dates: 6/57–12/68.

Objectives: To train enlisted personnel to supervise the maintenance and operation of chemical smoke generators.

Instruction: Lectures and practical exercises in maintenance and operation of flame throwers and chemical generators; identification and detection of toxic chemical agents; and principles of supply and maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in chemical technology (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in chemical technology (5/74).

AR-1601-0041

Mechanized Flame Thrower Surveillance

Course Number: None.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 4 weeks (155 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train personnel in the maintenance and repair of flame throwers.

Instruction: Lectures and practical exercises in the operation, troubleshooting, minor repair, and maintenance of various types of vehicle-mounted flame throwers; basic troubleshooting of the electrical, mechanical, and chemical systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in chemical/mechanical technology (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in chemical/mechanical technology (5/74).

AR-1601-0042

Chemical Equipment Repair

Course Number: 690-54D20; 3-R-533.1.

Location: *Version 1:* Ordnance and Chemical School, Aberdeen Proving Ground, MD. *Version 2:* Chemical School, Ft. McClellan, AL.

Length: *Version 1:* 8 weeks (232 hours). *Version 2:* 10–11 weeks (321–396 hours).

Exhibit Dates: *Version 1:* 4/77–Present. *Version 2:* 6/64–3/77.

Objectives: To train personnel to perform basic repairs on chemical equipment.

Instruction: *Version 1:* Lectures and practical exercises to include operation and maintenance of gas masks, flame throwers, smoke generators and decontamination equipment. *Version 2:* Lectures and practical exercises to include operation and minor maintenance of gas masks, flame throwers, smoke generators, and decontamination equipment; introduction to basic repair shop operations including welding, use of power and hand tools and painting and machine tools, and supply and maintenance procedures.

Credit Recommendation: *All Versions:* Credit is not recommended because of the military-specific nature of the course (1/78). *Version 2:* In the vocational certificate category, 3 semester hours in mechanical technology (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical technology (5/74).

Related Occupation Codes: 54D.

AR-1601-0043

Petroleum Storage Specialist

Course Number: 821-76W20; 821-56C2; 10-R-552.1; 10-E-25.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (274–280 hours).

Exhibit Dates: 9/54–Present.

Objectives: To provide enlisted personnel with knowledge in receiving, storing, issuing, dispensing, and shipping of petroleum products.

Instruction: Lectures and practical exercises in packing operations, supply point operations, terminal operations, and pipeline operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in petroleum storage procedures (6/75).

AR-1601-0044

Engineer Officer Basic

(Regular Army Engineer Officer Basic)

Course Number: 4-5-C20; 4-5-C20 (RA); 5-A-C1; 5-O-A.

Location: Engineer School, Ft. Belvoir, VA.

Length: 6–14 weeks (217–574 hours).

Exhibit Dates: 12/54–Present.

Objectives: To prepare newly commissioned Engineer Corps officers for their first duty assignments.

Instruction: Instruction includes combat engineer operations and individual combat training, construction management and equipment operation, and general military subjects.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in civil engineering and additional credit in advanced military science at institutions which normally offer such credit (9/79)

AR-1601-0045

Artillery Surveyor Noncommissioned Officer (NCO) Basic

Course Number: 412-82C40-EC.

Location: Field Artillery School, Ft. Sill, OK.

Length: 15 weeks (552 hours).

Exhibit Dates: 7/71–3/73.

Objectives: To provide enlisted personnel with a working knowledge of the duties required to perform as artillery surveyors.

Instruction: Lectures and practical exercises in general military subjects; artillery transport; communications; gunnery; tactics and combined arms; and target acquisition.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/76).

AR-1601-0046

Petroleum Quality Assurance Representative

Course Number: 8B-F33; 821-F2.

Location: Quartermaster School, Ft. Lee, VA.

Length: 4 weeks (142 hours).

Exhibit Dates: 2/75–Present.

Objectives: To provide personnel with knowledge of the functions, duties, and responsibilities required to perform as petroleum quality assurance representatives.

Instruction: Programmed instruction, audio-visual presentation, lectures, and practical exercises in laboratory tests of light distillates, physical and chemical laboratory tests of light and heavy distillates, and petroleum supply operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in petroleum laboratory techniques (6/75).

Related Occupation Codes: 761A.

AR-1601-0047

Forensic Chemistry—Trace Evidence

Course Number: None.

Location: Criminal Investigation Laboratory, Ft. Gordon, GA; Criminal Investigation Laboratory, Frankfurt, Germany; Criminal Investigation Laboratory, Tokyo,Japan.

Length: 23 weeks (866 hours).

Exhibit Dates: *Version 1:* 2/77–Present. *Version 2:* 11/71–1/77.

Objectives: To train personnel in the trace evidence aspect of forensic chemistry by preparing the analyst to properly and competently perform examinations and comparisons on known and questioned samples of evidence assisting the analyst in determining the forensic significance of the various types of trace evidence and assisting the analyst in reporting findings and presenting them in judicial proceedings.

Instruction: *Version 1:* Subjects include rules of evidence; courtroom procedures and the expert witness; handling and packaging of trace evidence; crime scene processing; safety, detection and analysis of flammable accelerants, paint, glass, soil, ink, wood, and paper and explosive residues examinations and microscopy. *Version 2:* Includes skeletal reconstruction, photography, chemical and physical properties, chemial tests, infrared and ultraviolet procedures, gas chromatograph separation and identification, microscopic examinations, thin-layer chromatography, neutron activation analysis, and botanical characteristics.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 9 semester hours in forensic chemistry or forensic science (4/78); in the graduate degree category, 0–9 semester hours, based on the student's research project, as assigned by the receiving institution. Credit is expressed as a range because of the highly individualized study and practical applied experience required (4/78). *Version 2:* In the upper-division baccalaureate category, 9 semester hours in forensic science or forensic chemistry (4/78).

AR-1601-0048

Forensic Drug Chemist

Course Number: None.

Location: Criminal Investigation Laboratory, Ft. Gordon, GA; Criminal Investigation Laboratory, Frankfurt,Germany; Criminal Investigation Laboratory, Tokyo,Japan.

Length: 30 weeks (1170 hours).

Exhibit Dates: 1/77–Present.

Objectives: To train personnel in forensic drug chemistry to qualify as expert witnesses before other judicial proceedings.

Instruction: Subjects include drug reference material; screening tests; ultraviolet-visible spectrophotometry, flurometry, microscopy, gas chromatography, GC-, MS-; TLC; LC; XRD; emission spectroscopy; NMR; separating techniques; amphetamines, barbituates, LSD and other hallucinogens; opium alkaloids and derivatives; cocaine; and other controlled non-controlled drugs; clandestine laboratories; drug syntheses; legal aspects of court and related topics. testimony; drug analysis internship.

Credit Recommendation: In the upper-division baccalaureate category, 9 semester hours in forensic chemistry or forensic science (4/78); in the graduate degree category, 0-9 semester hours based on the student's research project as assigned by the receiving institution. Credit is expressed as a range because of the highly individualized study and practical applied experience required (4/78).

AR-1601-0049

MARIJUANA EXAMINER
(Marijuana Examiner)

Course Number: None.
Location: Criminal Investigation Laboratory, Ft. Gordon, GA.
Length: 8 weeks (312 hours).
Exhibit Dates: 1/77-Present.
Objectives: To qualify individuals as expert witnesses before judicial proceedings.
Instruction: Topics include marijuana in general, marijuana analysis procedures and legal aspects of forensic analysis.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in forensic chemistry or forensic science (4/78).

AR-1601-0050

ENGINEER OFFICER ADVANCED RESERVE COMPONENT

Course Number: 4-5-C26.
Location: Engineer School, Ft. Belvoir, VA.
Length: 12 weeks (443 hours).
Exhibit Dates: 5/76-Present.
Objectives: To prepare engineer officers to be competent company commanders and batallion staff officers; emphasis is placed on the management of training.
Instruction: Conferences, demonstrations, practical exercises, computer assisted instruction, and case studies in construction management and equipment operation, combat construction management employing CPM, organization for ground combat, engineer support of defensive and offensive operations, horizontal and vertical construction.
Credit Recommendation: In the vocational certificate category, 3 semester hours in basic construction (9/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in general construction management (9/79); in the upper-division baccalaureate category, 3 semester hours in general civil engineering elective (9/79).

AR-1601-0051

ENGINEER OFFICER BASIC RESERVE COMPONENT

Course Number: 4-5-C25.
Location: Engineer School, Ft. Belvoir, VA.
Length: 4 weeks (167 hours).
Exhibit Dates: 1/76-Present.
Objectives: To teach newly commissioned second lieutenants in the Army National Guard (ARNG) and selected Army Reserve (USAR) officers in the same grade to perform the duties of a platoon leader in the corps of engineers, MOS for which trained.
Instruction: Conference, demonstration, practical exercise and case study in construction management and equipment operation, combat construction management employing CPM, organization for ground combat, engineer support of defensive and offensive operations, horizontal and vertical construction.
Credit Recommendation: In the vocational certificate category, 3 semester hours in basic construction (9/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in general construction management (9/79).

AR-1601-0052

GENERAL ENGINEERING (CFM-51) NONCOMMISSIONED OFFICER (NCO) ADVANCED.

Course Number: 7-51-C42.
Location: Engineer School, Ft. Belvoir, VA.
Length: 10 weeks (334-337 hours).
Exhibit Dates: 4/76-Present.
Objectives: To provide noncommissioned officers with advanced training in utilities and construction.
Instruction: Course emphasizes conferences, seminars, practical exercises, demonstrations, and case studies relating to military discipline and justice, leadership and management, maintenance management, field engineering, engineering support operations, foundations and materials, bituminous material, bridging, T/O structures, utilities and engineering construction management.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in construction management, 1 in bituminous materials, 1 in electricity for those students completing Track A (9/79); 2 semester hours in construction management, 1 in bituminous materials for those students completing Track B (9/79).

AR-1601-0053

FORENSIC SEROLOGY

Course Number: None.
Location: Criminal Investigation Laboratory, Ft. Gordon, GA; Criminal Investigation Laboratory, Frankfurt, Germany; Criminal Investigation Laboratory, Tokyo, Japan.
Length: 32 weeks (1240 hours).
Exhibit Dates: *Version 1:* 1/77-Present. *Version 2:* 5/74-12/76.
Objectives: To train personnel in forensic serology to qualify them as expert witnesses in the examination, identification, and interpretation of blood stains and stains of other body fluids and comparisons of hairs, before judicial proceedings.
Instruction: *Version 1:* History of forensic serology, handling of physical evidence, identification of blood, semen, saliva, and other biological samples; determination of species origin; interpretation of bloodstain patterns; ABO system; MN system; Rh system; polymorphic serum proteins and isoenzymes; ABO typing of hair; investigative techniques; legal aspects and court testimony. *Version 2:* Fundamentals of blood serology; microscopic examinations; photography; determination of blood; agglutinins of fresh blood; agglutinogens and agglutinins of dried blood; isoenzymes and hemoglobins; semenil and other body substances; study and comparison of hairs, fibers, and minerals.
Credit Recommendation: *All Versions:* In the upper-division baccalaureate category, 9 semester hours in forensic biology (4/78); In the graduate degree category, 0-9 semester hours (based on the student's research project) to be assigned by the receiving institution. Credit is expressed as a range because of the highly individualized study and the practical applied experience required (4/78). *Version 2:* In the upper-division baccalaureate category, 9 semester hours in forensic chemistry or forensic sciences (4/78).

AR-1601-0054

FIELD ARTILLERY TARGET ACQUISITION AND FIELD ARTILLERY SURVEY

Course Number: 2E-1154; 2G-1183.
Location: Field Artillery School, Ft. Sill, OK.
Length: 9-10 weeks (325-345 hours).
Exhibit Dates: 8/75-7/79.
Objectives: To train field artillery officers in the field of target acquisition/reconnaissance and survey.
Instruction: Lectures, demonstrations and field work in surveying, map reading and plotting, celestial navigation principles and cannon fire direction. Mathematics including logarithms and trigonometry is also covered.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in surveying and celestial navigation (1/80). in the upper-division baccalaureate category, 4 semester hours in surveying and celestial navigation (1/80). Credit is to be granted at either the lower or upper division category.

AR-1601-0055

MARINE FIELD ARTILLERY FIRE CONTROLMAN

Course Number: 250-0844.
Location: Field Artillery School, Ft. Sill, OK.
Length: 5-6 weeks (182-241 hours).
Exhibit Dates: 10/75-Present.
Objectives: To train Marine Corps enlisted personnel in map reading, artillery surveying and cannon fire direction.
Instruction: Lectures, demonstrations and field exercises in map reading and ploting as well as surveying principles. Student is taught basic mathematics including logarithms and right triangle trigonometry.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in surveying (1/80); in the upper-division baccalaureate category, 3 semester hours in surveying (1/80); Credit is to be granted in either the upper or lower division, but not in both categories.

AR-1601-0056

LANCE OPERATIONS/FIRE DIRECTION ASSISTANT

Course Number: 250-15J10.
Location: Field Artillery School, Ft. Sill, OK.
Length: 6 weeks (214 hours).
Exhibit Dates: 4/78-Present.
Objectives: To qualify enlisted personnel to become fire direction assistants in a Lance missile unit.
Instruction: Lectures and practical exercises in map reading, zone-to-zone grid transformation, basic mathematics including logarithms, computations both manually and with a FADAC computer; computes parameters for nuclear fire missions such as azimuth, orienting angle, time to fire and correction data; using FADAC student computes survey problems including altitude, declination, horizontal and vertical angles and horizontal distances for a minimum of fair traverse stations.
Credit Recommendation: In the vocational certificate category, 1 semester hour in basic mathematics (1/80); in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and 1 in introduction to computers (1/80).
Related Occupation Codes: 15J.

AR-1606-0001

Intelligence Analyst Noncommissioned Officer (NCO) Basic

Course Number: 243-96B40-EC.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 10 weeks (307 hours).

Exhibit Dates: 1/72–Present.

Objectives: To provide noncommissioned officers with a working knowledge of the duties of intelligence analysts.

Instruction: Lectures in intermediate-level supervisory skills in intelligence and security operations, communicative arts, personnel management, general intelligence subjects, ground and aerial surveillance, electronic surveillance devices, advanced photogrammetry, Soviet defense policy, Soviet/East European/Chinese communist armed forces, interrogation, and a military campaign case study.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business administration, 3 in industrial security, 3 in political science (1/74); in the upper-division baccalaureate category, 3 semester hours in business administration, 3 in industrial security, 3 in political science (1/74).

Related Occupation Codes: 96B.

AR-1606-0002

Image Interpreter NCO Basic

Course Number: 242-96D40-EC.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 12 weeks (367 hours).

Exhibit Dates: 1/72–Present.

Objectives: To provide noncommissioned officers with a working knowledge of image interpretation.

Instruction: Lectures in intermediate-level supervisory skills in intelligence and security operations, communicative arts, personnel management, general intelligence subjects, tactical intelligence, interrogation, advanced photogrammetry, mosaics, terrain analysis, imagery interpretation management, target folders, and target analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business administration, 3 in industrial security, 3 in political science (1/74); in the upper-division baccalaureate category, 3 semester hours in business administration, 3 in industrial security, 3 in political science (1/74).

Related Occupation Codes: 96C.

AR-1606-0003

Petroleum Distribution Supervision

Course Number: 821-F1.

Location: Quartermaster School, Ft. Lee, VA.

Length: 6 weeks (210 hours).

Exhibit Dates: 7/67–Present.

Objectives: To train enlisted personnel to supervise the receipt, storage, and issue of petroleum products and the operation of cross-country pipelines.

Instruction: Lectures and practical exercises in the supervision and operation of petroleum pipelines, including general petroleum subjects, pipeline and terminal operations, fuel system supply point, tank vehicles, supervisory performance exercise, gaging and sampling, pump station operation, general laboratory subjects and basic laboratory tests, petroleum supply in the combat zone, quality surveillance and laboratory operations.

Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in industrial technology (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in industrial technology (6/74).

Related Occupation Codes: 96D.

AR-1606-0004

1. Counterintelligence Agent
2. Counterintelligence Agent (Military Intelligence Specialist)

Course Number: 244-97B40.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 15 weeks (455 hours). *Version 2 :* 15 weeks (526–566 hours).

Exhibit Dates: *Version 1:* 2/72–5/75. *Version 2:* 4/67–1/72.

Objectives: To provide enlisted personnel with investigative skills and with a basic knowledge of installation security procedures.

Instruction: Lectures and practical experience in administration, human relations, interviews and interrogations, basic investigative techniques, report writing, and oral briefing techniques.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in public administration, investigative methods, or industrial security (1/74); in the upper-division baccalaureate category, 3 semester hours in public administration, investigative methods, or industrial security (1/74). *Version 2:* In the upper-division baccalaureate category, 5 semester hours in intelligence methods (12/68).

Related Occupation Codes: 97B.

AR-1606-0005

Technical Intelligence

Course Number: 3A-F18; 243-F4.

Location: Intelligence School, Ft. Holabird, MD.

Length: 3 weeks (110 hours).

Exhibit Dates: 2/67–12/68.

Objectives: To provide officers and enlisted personnel with a working knowledge of technical intelligence.

Instruction: Lectures in basic intelligence methods, including gathering and processing intelligence information, geography and politics of foreign areas, characteristics of foreign military personnel, and map reading.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in political science (1/74); in the upper-division baccalaureate category, credit in intelligence methods on the basis of institutional evaluation (12/68).

AR-1606-0006

Flight Simulator (UH1FS) Specialist (Flight Simulator (2B24) Specialist)

Course Number: 191-F1.

Location: Aviation Center, Ft. Rucker, AL.

Length: 2–3 weeks (91 hours).

Exhibit Dates: 6/75–Present.

Objectives: To provide enlisted personnel with the knowledge to perform as synthetic flight training system (2B24 or UH1FS) console operators in order to provide instruction in instrument flight techniques to rotary wing rated Army aviators.

Instruction: Practical exercises and programmed instruction in the synthetic flight training system, UH1FS or 2B24.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/78)

Related Occupation Codes: 93D; 93J.

AR-1606-0007

Installation Intelligence

Course Number: 3C-F4; 243-F1.

Location: Intelligence School, Ft. Holabird, MD.

Length: 3 weeks (90–109 hours).

Exhibit Dates: *Version 1:* 5/69–Present. *Version 2:* 5/67–4/69.

Objectives: To provide commissioned officers, enlisted personnel, and civilian personnel with a basic understanding of installation intelligence and physical security functions.

Instruction: Lectures in the basic principles of intelligence, including an analysis of domestic intelligence agencies and their functions, counterintelligence procedures, physical security of installations, and personnel screening methods.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in industrial security (1/74); in the upper-division baccalaureate category, 2 semester hours in industrial security (1/74). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in intelligence methods (12/68).

Related Occupation Codes: 11F; 11D; 13E; 15J; 16H; 96B.

AR-1606-0008

Order of Battle Intelligence Enlisted

Course Number: 30-E-6.

Location: Intelligence School, Ft. Holabird, MD.

Length: 13 weeks (455 hours).

Exhibit Dates: 5/57–12/68.

Objectives: To train enlisted personnel to perform administrative and clerical duties in the intelligence field.

Instruction: Lectures in political science, topography, administrative procedures, order of battle procedures, and organization and tactics of intelligence units.

Credit Recommendation: In the vocational certificate category, 3 semester hours in business or public administration (1/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business or public administration (1/74); in the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AR-1606-0009

Military Intelligence

Course Number: 30-R-971.1.

Location: Intelligence School, Ft. Holabird, MD.

Length: 10 weeks (315 hours).

Exhibit Dates: 12/57–12/68.

Objectives: To train enlisted personnel to perform clerical and administrative duties in the intelligence field.

Instruction: Lectures in the basic principles of processing intelligence reports, clerical administration, filing systems, and the use of office equipment.

Credit Recommendation: Insufficient data for evaluation (1/74).

AR-1606-0010

Intelligence Enlisted

Course Number: 30-E-3; 30-R-962.2.

Location: Intelligence School, Ft. Holabird, MD.

Length: 13 weeks (455 hours).

Exhibit Dates: 3/57–12/68.

Objectives: To train enlisted personnel in intelligence procedures.

Instruction: Lectures in basic intelligence methods, administrative procedures, political science, topography, and collection, processing, and dissemination of intelligence materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in political science or public administration (1/74); in the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AR-1606-0011

Non-Morse Communications Analyst
(Non-Morse Search and Development)

Course Number: 231-F1.

Location: Security Agency School, Ft. Devens, MA.

Length: 11 weeks (395 hours).

Exhibit Dates: 12/67–Present.

Objectives: To provide enlisted personnel with a working knowledge of basic communications theory and the use of communications equipment.

Instruction: Lectures and practical experience in basic telecommunications theory, circuit analysis, and the use of electronic diagnostic equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (1/74); in the upper-division baccalaureate category, 3 semester hours in electronics (1/74).

Related Occupation Codes: 05K.

AR-1606-0012

Radio Traffic Analyst
(Traffic Analysis)

Course Number: 232-98C20.

Location: Security Agency School, Ft. Devens, MA.

Length: 9 weeks (310 hours).

Exhibit Dates: 12/51–Present.

Objectives: To provide enlisted personnel with a working knowledge of basic radio traffic analysis.

Instruction: Lectures and practical experience in the theory and operation of telecommunication equipment, informational analysis, radio program and technical report writing, and monitoring of radio transmissions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in telecommunications or credit in learning resources and media on the basis of institutional evaluation (1/74); in the upper-division baccalaureate category, 3 semester hours in telecommunications or credit in learning resources and media on the basis of institutional evaluation (1/74).

Related Occupation Codes: 98C.

AR-1606-0013

Operations and Intelligence Specialist
(Infantry Intelligence and Operations Specialist)

Course Number: None.

Location: Institute for Military Assistance, Ft. Bragg, NC; Special Forces Training Group, Ft. Bragg, NC.

Length: 8 weeks (320 hours).

Exhibit Dates: 1/65–2/73.

Objectives: To provide enlisted personnel with the knowledge and skills necessary to perform as intelligence specialists.

Instruction: Lectures in the basic principles of intelligence gathering, including map reading, photography, authentication systems, and collecting, processing, and disseminating political and sociological information.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial security (1/74); in the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AR-1606-0014

Senior Officer EW-Cryptologist

Course Number: 2G-F10.

Location: Security Agency School, Ft. Devens, MA.

Length: 4 weeks (172 hours).

Exhibit Dates: 4/68–Present.

Objectives: To train officers to perform the duties of a cryptologic officer.

Instruction: Lectures in the fundamentals of security procedures, including electronic countermeasures, cryptological operations, and collection of political, sociological, and geographical data about foreign countries.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in international relations or public administration on the basis of institutional evaluation (1/74); in the upper-division baccalaureate category, credit in international relations or public administration on the basis of institutional evaluation (1/74).

AR-1606-0015

EW-Cryptologic Officer Specialist

Course Number: 2G-F11.

Location: Security Agency School, Ft. Devens, MA.

Length: 3 weeks (102 hours).

Exhibit Dates: 1/68–Present.

Objectives: To provide officers with a basic knowledge of the fields of intelligence and electronic countermeasures.

Instruction: Lectures in the fundamentals of intelligence operations, including electromagnetic theory, electronic countermeasures, human relations, and collection of political and geographical data on foreign countries.

Credit Recommendation: In the vocational certificate category, credit in basic electronics on the basis of institutional evaluation (1/74); in the lower-division baccalaureate/associate degree category, credit in basic electronics on the basis of institutional evaluation (1/74); in the upper-division baccalaureate category, credit in basic electronics on the basis of institutional evaluation (1/74).

AR-1606-0016

Radio Teletypewriter Analysis

Course Number: 232-F1.

Location: Security Agency School, Ft. Devens, MA.

Length: 7 weeks (316 hours).

Exhibit Dates: 11/66–Present.

Objectives: To provide enlisted personnel with a working knowledge of telecommunications.

Instruction: Lectures and practical experience in various types of teletypewriter systems equipment, radio-teletypewriter operations, transmission and receipt of communications, and English.

Credit Recommendation: In the vocational certificate category, 3 semester hours in business communications (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business communications (1/74).

Related Occupation Codes: 98C.

AR-1606-0017

Cryptologic EW Officer Basic Specialist

Course Number: 2G-F12.

Location: Security Agency School, Ft. Devens, MA.

Length: 14 weeks (616 hours).

Exhibit Dates: 9/71–Present.

Objectives: To provide officers with a basic knowledge of cryptology.

Instruction: Lectures in basic electronics, the principles of organization and management, collection of political and economic data, and human relations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in telecommunications, 4 in political science, public administration, or business administration (1/74); in the upper-division baccalaureate category, 2 semester hours in telecommunications, 4 in political science, public administration, or business administration (1/74).

AR-1606-0018

Intelligence Officer Basic
(Military Intelligence Officer Basic) Basic

Course Number: 3-30-C20.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 9 weeks (291–333 hours).

Exhibit Dates: *Version 1:* 8/79–Present. *Version 2:* 7/78–7/79. *Version 3:* 3/73–6/78.

Objectives: To provide officers with the skills necessary to perform as management personnel in the field of intelligence.

Instruction: *All Versions:* Lectures in intelligence operations, personnel management and supervision, military equipment and resources. *Version 2:* Course includes tactical operations and organizational effectiveness. *Version 3:* Course includes military legal system.

Credit Recommendation: *Version 1:* Pending evaluation *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of administration/ management (5/79). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours in management, business administration, or public administration (1/74); in the upper-division baccalaureate category, 3 semester hours in management, business administration, or public administration (1/74).

AR-1606-0019

Basic Industrial Security

Course Number: 3C-F7.

Location: Intelligence School, Ft. Holabird, MD.

Length: 3 weeks (119 hours).

Exhibit Dates: 4/67–Present.

Objectives: To train civilian and military personnel to perform the duties of an industrial security specialist.

Instruction: Lectures in the basic principles of physical security, mechanical and electronic protective devices, and principles of industrial security organization.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in police administration or industrial security (1/74); in the upper-division baccalaureate category, 1 semester hour in management, 1 in political science (12/68).

AR-1606-0020

USASA Basic Cryptologic Supervisor

Course Number: 230-F3.
Location: Security Agency School, Ft. Devens, MA.
Length: 10 weeks (472 hours).
Exhibit Dates: 12/71–Present.
Objectives: To train enlisted personnel to become supervisors in the field of cryptology.
Instruction: Lectures in the basic operation of a telecommunications organization, personnel management and supervision, human relations, and the functions and applied use of electronic telecommunications equipment.
Credit Recommendation: In the vocational certificate category, 1 semester hour in public administration, 1 in electronics (1/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in public administration, 1 in electronics (1/74).
Related Occupation Codes: 98B; 98C; 98G; 98J; 05D; 05G; 05H; 05K.

AR-1606-0021

Security Assistance Management Orientation Seminar

Course Number: 7B/F5.
Location: Institute For Military Assistance, Ft. Bragg, NC.
Length: 2 weeks (76–83 hours).
Exhibit Dates: 6/73–8/77.
Objectives: To provide officers with the knowledge necessary to qualify them for positions in military assistance programs with foreign governments.
Instruction: Lectures in security assistance resources and management, U.S. policies and foreign assistance programs, and national security objectives and responsibilities.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (1/74).

AR-1606-0022

National Senior Intelligence

Course Number: None.
Location: Defense Intelligence School, Washington, DC.
Length: 14 weeks (560 hours).
Exhibit Dates: 6/72–Present.
Objectives: To provide officers and civilian personnel with the knowledge necessary to hold management positions in the field of national and international intelligence.
Instruction: Lectures in the processing and management of intelligence information, development and implementation of U.S. foreign policy, the national intelligence structure, and government agencies involved in foreign policy.
Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in international relations, public administration, or political science (1/74).

AR-1606-0023

Command and Staff Officer Cover and Deception

Course Number: 2G-F14.
Location: Electronic Warfare School, Ft. Huachuca, AZ.
Length: 3 weeks (120 hours).
Exhibit Dates: 8/72–Present.
Objectives: To provide commissioned officers and civilian personnel with a working knowledge of cover and deception intelligence measures.
Instruction: Lectures in tactics and strategies in the deployment of combat forces, electronic countermeasures, electronic surveillance equipment, and case studies of cover and deception operations in World War II and the Vietnamese War.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/74).

AR-1606-0024

Security Assistance Management (Military Assistance Programmer/Advisor)

Course Number: 7B-F2; 012-F1.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 3–4 weeks (124–145 hours).
Exhibit Dates: 9/71–8/77.
Objectives: To provide officers and noncommissioned officers with a basic knowledge of U.S. foreign policy and international assistance programs.
Instruction: Lectures in tbe basic principles of security assistance resource management, including U.S. foreign policy, communicating in foreign cultures, foreign internal defense planning, and case studies of foreign assistance programs.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in comparative economics, international relations, or political science (1/74); in the upper-division baccalaureate category, 2 semester hours in comparative economics, international relations, or political science (1/74).

AR-1606-0025

Defense Against Methods of Entry

Course Number: 3C-F2; 244-F2.
Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Holabird, MD.
Length: *Version 1:* 9 weeks (272 hours). *Version 2:* 6–9 weeks (213–324 hours).
Exhibit Dates: *Version 1:* 6/72–Present. *Version 2:* 4/65–5/72.
Objectives: To provide military personnel with a working knowledge of protective security measures and devices.
Instruction: Lectures and practical experience in the use and repair of mechanical and electronic locking devices and alarm systems.
Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in physical security or police administration (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in physical security or police administration (1/74). *Version 2:* In the vocational certificate category, 1 semester hour in physical security or police administration (1/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in physical security or police administration (1/74).
Related Occupation Codes: 97B; 97C.

AR-1606-0026

Special Forces Operations and Intelligence

Course Number: *Version 1:* 244-AS1F 1. *Version 2:* 244-F5.
Location: *Version 2:* Intelligence School, Ft. Huachuca, AZ. *All Versions:* Institute for Military Assistance, Ft. Bragg, NC.
Length: *Version 1:* 16 weeks (671–680 hours). *Version 2:* 15 weeks (537–540 hours).
Exhibit Dates: *Version 1:* 2/79–Present. *Version 2:* 3/73–1/79.
Objectives: To provide enlisted personnel with the knowledge necessary to perform as supervisors in the intelligence field.
Instruction: *Version 1:* Lectures and practical exercises intelligence gathering and techniques of information analysis, including mapreading, counterintelligence techniques, basic photography and public administration. *Version 2:* Lectures in interrogation methods and techniques, information gathering and analysis, photograph and map reading, political and civil affairs operations in foreign nations, U.S. foreign policy, and counterintelligence techniques.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in basic photography, 2 in public administration or political administration or physical security and 3 in physical education (2/80). *Version 2:* In the vocational certificate category, 2 semester hours in political science, public administration, or police administration/physical security (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in political science, public administration, or police administration/physical security (1/74).
Related Occupation Codes: 11B; 11C; 11F; 12B; 76Y; 91B; 96B; 00Z; 05B.

AR-1606-0027

1. Special Forces Intelligence
2. Intelligence Analyst (Special Forces)

Course Number: 244-F5.
Location: Intelligence School, Ft. Holabird, MD; Intelligence School, Ft. Huachuca, AZ.
Length: 7 weeks (247 hours).
Exhibit Dates: *Version 1:* 8/70–2/73. *Version 2:* 5/66–7/70.
Objectives: To provide enlisted personnel with the skills necessary to conduct interrogations and other intelligence activities.
Instruction: *All Versions:* Lectures in basic intelligence methods including personnel interviewing, report writing, and counterintelligence operations. *Version 1:* Topics include aerial and audio surveillance techniques, physical security, and foreign armies orientation. *Version 2:* Topics include interviews and interrogations, map reading, human relations, and the development of sources of information.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in political science, public administration, or police administration (1/74); in the upper-division baccalaureate category, 3 semester hours in political science, public administration, or police administration (1/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in political science or industrial security (1/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (12/68).
Related Occupation Codes: 96B.

AR-1606-0028

Fixed Wing Qualification

Course Number: 2B-1980-B; 2B-101B-B; 2B-101C-B; 2B-061B-A; 2B-061C-F; 1B-1980-B; 1B-061B.

Location: Aviation School, Ft. Rucker, AL; Aviation School, Ft. Stewart, GA.

Length: 8-16 weeks (280-576 hours).

Exhibit Dates: 6/59-Present.

Objectives: To train helicopter pilots to fly fixed-wing aircraft.

Instruction: Lectures and flight training in fixed-wing aircraft operation, including aircraft maintenance, navigation, meteorology, and air assault tactics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fixed-wing flight training, 2 in navigation or meteorology (2/74); in the upper-division baccalaureate category, credit in navigation or meteorology on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B; 100C; 100D; 100E; 100Q; 100R; 160A; 103A.

AR-1606-0029

Special Identification Techniques Analyst

Course Number: 231-05D30.

Location: Security Agency School, Ft. Devens, MA.

Length: 9 weeks (381 hours).

Exhibit Dates: 9/64-3/77.

Objectives: To thoroughly train personnel operators in analytical techniques and to provide the skills and knowledge necessary to identify and report information by selected special identification techniques.

Instruction: Theories and principles of identification techniques analysis; administrative operational tasks; introduction to intelligence; preparation and maintenance of mission logs; mission processing and analysis from raw data; evaluation and validation of activity reports; accuracy studies; on-the-job training programs in military radio reconnaissance activities.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

Related Occupation Codes: 05D.

AR-1606-0030

Special Identification Techniques Operator

Course Number: 231-05D20.

Location: Security Agency School, Ft. Devens, MA.

Length: 14 weeks (599 hours).

Exhibit Dates: 2/66-Present.

Objectives: To train selected personnel in the operational procedures and techniques of telecommunication employing international codes at the intermediate speed classification level.

Instruction: Telecommunication theory and operational studies; radiotelegraph and teletypewriter procedures and operation; special identification techniques; cryptographic and communications security; signal recognition; radio direction finding.

Credit Recommendation: In the vocational certificate category, 2 semester hours in telecommunications, 1 in electronic theory (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in telecommunications, 1 in electronic theory (2/74); in the upper-division baccalaureate category, 2 semester hours in telecommunications, 1 in electronic theory (2/74).

Related Occupation Codes: 05D.

AR-1606-0031

Area Intelligence Specialist
(Area Intelligence Officer)

Course Number: 244-97C40; 3A-9668; 3A-972A.

Location: Intelligence School, Ft. Huachuca, AZ; Intelligence School, Ft. Holabird, MD.

Length: 20 weeks (600 hours).

Exhibit Dates: 2/71-Present.

Objectives: To provide selected intelligence officers with in-depth study in the political, historical, and geographical background of specific countries or areas, and to insure, through extensive study, a cultural understanding and language proficiency which will enable them to function as intelligence specialists.

Instruction: Historical, political, economic, and sociological aspects of national groups; strategic intelligence; U.S. intelligence structure; mission and employment of counterintelligence units; foreign intelligence organizations and techniques; use of automatic data processing in intelligence; intelligence collection by air reconnaissance; writing techniques and methods; map reading and cartographic materials; security-safeguarding military information; advanced operation of electronic and photographic equipment; radio communication; interviewing methods and written and oral interpersonal communications, including language interpretation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in political science or credit in public administration on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 9 semester hours in political science or credit in public administration on the basis of institutional evaluation (2/74).

AR-1606-0032

Intelligence Analyst, Specialist Candidate

Course Number: 243-96B20-I.

Location: Intelligence School, Ft. Holabird, MD.

Length: 12 weeks (425 hours).

Exhibit Dates: 8/70-Present.

Objectives: To train intelligence analysts as senior technicians in the analysis of the political, economic, and military capability of selected foreign governments and/or entities.

Instruction: Organizational and managerial theory; administrative and interrogational procedures; public speaking; political, social, and military history and composition of Southeast Asia.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in international relations, 2 in political science, 2 in business administration (2/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (2/72).

Related Occupation Codes: 96B.

AR-1606-0033

1. Tactical Intelligence Staff Officer
2. Combat Intelligence Staff Officer

Course Number: 3A-9301.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2 :* Intelligence School, Ft. Holabird, Md.

Length: *Version 1:* 6 weeks (181 hours). *Version 2 :* 6 weeks (209 hours).

Exhibit Dates: *Version 1:* 3/72-Present. *Version 2:* 3/68-2/72.

Objectives: To provide selected commissioned officers with the knowledge and techniques of combat intelligence at battalion, brigade, and division level.

Instruction: Staff organization and procedures; area and counterintelligence; tactical imagery interpretation facility and terrain models; functions and duties of combat intelligence officer.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in political science or credit in public administration on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in political science or credit in public administration on the basis of institutional evaluation (2/74). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in intelligence methods (3/70).

AR-1606-0034

Intelligence Analyst

Course Number: 243-96B20A.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2 :* Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 9 weeks (270 hours). *Version 2 :* 9 weeks (316 hours).

Exhibit Dates: *Version 1:* 2/72-1/79. *Version 2:* 3/67-1/72.

Objectives: To prepare selected enlisted personnel to assist intelligence staff officers in intelligence operations by providing them with the necessary skills and knowledge of military intelligence training.

Instruction: Military organizational functions; counterintelligence; interrogation; aerial surveillance; psychological operations; civil affairs orientation; preparation of intelligence reports; preparation and supervision of intelligence training programs; collection and processing of military information; production and dissemination of military intelligence; typewriting; map reading.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in public administration, 3 in political science (2/74); in the upper-division baccalaureate category, 3 semester hours in public administration, 3 in political science (2/74). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

Related Occupation Codes: 96B.

AR-1606-0035

Military Intelligence Coordinator

Course Number: 244-97D20.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Holabird, MD. *Version 3:* Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 7 weeks (210 hours). *Version 2:* 8 weeks (281 hours). *Version 3:* 8 weeks (279 hours).

Exhibit Dates: *Version 1:* 3/72-Present. *Version 2:* 11/70-2/72. *Version 3:* 11/66-10/70.

Objectives: To provide enlisted personnel who have demonstrated writing skill with the international political knowledge necessary to qualify them as geopolitical assessors of a foreign nation.

Instruction: Business communications; typing; interviewing techniques; communist political ideology; international code radio operation.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in business report writing, 3 in public administration or political science (2/74); in the upper-division baccalaureate category, 3 semester hours in business report writing, 3 in public administration or political science (2/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in intelligence methods and credit in typing on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods and credit in typing on the basis of institutional evaluation (12/68). *Version 3:* In the upper-division baccalaureate category, credit in intelligence methods and typing on the basis of institutional evaluation (12/68).

Related Occupation Codes: 97D; 97B; 97C.

AR-1606-0036

DIVING

Course Number: *Version 1:* 4N-7242; 433-00B10; 433-00B20; 433-00B30. *Version 2:* 55-D-7242; 55-D-564.2. *Version 3:* 55-OE-13.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 22 weeks (771 hours). *Version 2:* 17 weeks (748 hours). *Version 3:* 17 weeks (748 hours).

Exhibit Dates: *Version 1:* 8/72–Present. *Version 2:* 10/57–7/72. *Version 3:* 8/55–9/57.

Objectives: To train commissioned officers and enlisted personnel in the basic principles of scuba-diving equipment operation and maintenance.

Instruction: Lectures and practical experience in the maintenance of diving equipment, scuba-diving principles and safety, and scuba diving as applied to the maintenance and operation of underwater research equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in marine technology (12/73). *Version 2:* In the vocational certificate category, 3 semester hours in marine sciences (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in ocean engineering (12/73); in the upper-division baccalaureate category, 1 semester hour in ocean engineering (12/73). *Version 3:* In the vocational certificate category, 6 semester hours in marine sciences (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in ocean engineering (12/73); in the upper-division baccalaureate category, 6 semester hours in ocean engineering (12/73).

Related Occupation Codes: 00B.

AR-1606-0037

UNDERWATER OPERATIONS

Course Number: None.

Location: John F. Kennedy Center for Special Warfare, Ft. Bragg, NC.

Length: 6 weeks (224 hours).

Exhibit Dates: 5/65–12/68.

Objectives: To provide the student with knowledge in surface swimming, diving and equipment, demolitions, and boating sufficient to perform water operations in a Special Forces unit.

Instruction: Surface swimming, diving, the use of diving equipment, marine life and hazards, underwater demolitions training, and small boat training.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-1606-0038

DIVER SKILL DEVELOPMENT BASE

Course Number: 433-00B30-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 26 weeks (1,007 hours).

Exhibit Dates: 5/68–Present.

Objectives: To provide selected enlisted personnel with knowledge and proficiency as divers for technical surface and underwater work.

Instruction: Seminars and practical exercises in diving equipment and techniques, diver tending principles, surface burning and welding, underwater cutting and welding, and explosives and demolition.

Credit Recommendation: In the vocational certificate category, 3 semester hours in physical education, 2 in demolitions, and 1 in welding (7/74).

Related Occupation Codes: 00B.

AR-1606-0039

1. COUNTERINTELLIGENCE OFFICER/TECHNICIAN
2. COUNTERINTELLIGENCE OFFICER/TECHNICIAN (Intelligence Research Officer/Technician)
3. INTELLIGENCE RESEARCH OFFICER

Course Number: *Version 1:* 3C-9666; 3C-971A. *Version 2:* 3C-9666; 3C-971A. *Version 3:* 30-B-9666.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Holabird, MD. *Version 3:* Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 15 weeks (450 hours). *Version 2:* 15 weeks (490–552 hours). *Version 3:* 14 weeks (490 hours).

Exhibit Dates: *Version 1:* 12/70–5/75. *Version 2:* 4/67–11/70. *Version 3:* 12/57–3/67.

Objectives: To train officers to be intelligence and counterintelligence investigators.

Instruction: Lectures and practical exercises in intelligence, friendly and hostile agencies, internal development, and tactical counterintelligence support.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in public administration, investigative methods, or industrial security (1/74); in the upper-division baccalaureate category, 3 semester hours in public administration, investigative methods, or industrial security (1/74). *Version 2:* In the upper-division baccalaureate category, 5 semester hours in police or intelligence methods (12/68). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

Related Occupation Codes: 971A.

AR-1606-0040

O-1 INSTRUCTOR PILOT QUALIFICATION

Course Number: 2B-F13.

Location: Aviation School, Ft. Rucker, AL.

Length: 5 weeks (185 hours).

Exhibit Dates: 1/69–Present.

Objectives: To qualify pilots as flight-training instructors.

Instruction: Flight training in primary and intermediate maneuvers, night flying, formation flying, uniform flight grading, and aircraft components and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in instructor pilot flight experience (2/74).

Related Occupation Codes: 100C.

AR-1606-0041

CH-21 (SHAWNEE) PILOT TRANSITION

Course Number: 1-B-F36.

Location: Aviation School, Ft. Rucker, AL.

Length: 4 weeks (154 hours).

Exhibit Dates: 12/62–12/68.

Objectives: To train Army aviators to operate the Shawnee helicopter.

Instruction: Lectures and operational training in the Shawnee helicopter, including flight training; helicopter maintenance; and survival, counterinsurgency, and escape tactics.

Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter flight training on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100C.

AR-1606-0042

CH-37 INSTRUCTOR PILOT QUALIFICATION

Course Number: 2C-F24.

Location: Aviation School, Ft. Rucker, AL.

Length: 5 weeks (160 hours).

Exhibit Dates: 7/69–Present.

Objectives: To qualify commissioned and warrant officer aviators as instructor pilots for CH-37 standardization and transition training.

Instruction: Conferences and practical exercises in flight training, teaching methods, basic and advanced flight maneuvers, and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight instruction (2/74).

Related Occupation Codes: 100C.

AR-1606-0043

CH-47 INSTRUCTOR PILOT

(CH-47 (Chinook) Instructor Pilot Qualification)

Course Number: 2C-F10.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4–6 weeks (133–231 hours).

Exhibit Dates: 6/65–Present.

Objectives: To train selected and qualified pilots as instructor pilots in the CH-47 helicopter.

Instruction: Flight experience as instructor pilot and related academic subject matter including principles and methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78).

Related Occupation Codes: 100B; 100C; 100D; 100E; 100Q; 100R; 160A.

AR-1606-0044

AEROSCOUT OBSERVER

Course Number: 250-11D2F.

Location: Armor School, Ft. Knox, KY.

Length: 3 weeks (87 hours).

Exhibit Dates: 6/72–Present.

Objectives: To train enlisted personnel to perform aerial reconnaissance as members of an air cavalry unit.

Instruction: Conferences and practical exercises in combat and combat service support, tactical operations, aeroscout communications, leadership, map reading/air navigation, and aeroscout weapons.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

Related Occupation Codes: 11D.

AR-1606-0045

CH-54 AVIATION QUALIFICATION

Course Number: 2C-100D.

Location: Aviation School, Ft. Rucker, AL.

Length: 6 weeks (212 hours).

Exhibit Dates: 3/72-Present.

Objectives: To train commissioned officers and noncommissioned officers in the operation of CH-54 helicopters.

Instruction: Flight training, including transition flight maneuvers and load operations and lectures on aircraft systems operations.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

Related Occupation Codes: 100B; 100C; 100E; 102A.

AR-1606-0046

CH-54 PILOT TRANSITION

Course Number: 2C-F16.

Location: Aviation School, Ft. Rucker, AL.

Length: 6 weeks (218-241 hours).

Exhibit Dates: 3/67-Present.

Objectives: To train commissioned and warrant officers in the operation of CH-54 helicopters.

Instruction: Lectures and practical experience in transition flight training, CH-54 maintenance, instrumentation, rotary wing preflight briefing, and night flight operations.

Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter flight training on the basis of institutional evaluation (12/68).

Related Occupation Codes: 062B-100B; 062C-100C; 062D-100D.

AR-1606-0047

OH-58 INSTRUCTOR PILOT
(OH-58 Transition/Gunnery Instructor Pilot (IP) Qualification)

Course Number: 2C-F23.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-6 weeks (127-199 hours).

Exhibit Dates: 7/69-Present.

Objectives: To train selected and qualified pilots as instructor pilots in the OH-58 helicopter.

Instruction: Course is self-paced beginning in 1976. Includes flight experience as instructor pilot and related academic subject matter including principles and methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78).

Related Occupation Codes: 100B; 100C; 100D; 100E; 102A.

AR-1606-0048

OH-58 AVIATOR QUALIFICATION

Course Number: 2C-F25.

Location: Aviation School, Ft. Rucker, AL.

Length: 2 weeks (79 hours).

Exhibit Dates: 3/72-Present.

Objectives: To qualify commissioned and warrant officer aviators to operate OH-58 helicopters under normal and emergency flight conditions.

Instruction: Flight briefings and transition flight training, including night operations and precautionary measures in critical conditions.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

Related Occupation Codes: 100B.

AR-1606-0049

UH-1 AVIATOR QUALIFICATION
(UH-1 Pilot Transition)

Course Number: 2C-F18.

Location: Aviation School, Ft. Rucker, AL.

Length: 4 weeks (129 hours).

Exhibit Dates: 9/68-Present.

Objectives: To qualify commissioned and warrant officer aviators in the safe operation of the UH-1 helicopter.

Instruction: Preflight briefing, lectures in precautionary measures, transitional flight training, and maintenance of aircraft.

Credit Recommendation: Credit is not recommended because of limited technical nature of the course (2/74).

Related Occupation Codes: 100B.

AR-1606-0050

OV-1 INSTRUCTOR PILOT
(OV-1 (Mohawk) Instructor Pilot Qualification

Course Number: 2B-F5.

Location: Aviation Center, Ft. Rucker, AL.

Length: Self-paced 6 weeks (210-240 hours).

Exhibit Dates: 6/65-Present.

Objectives: To train selected and qualified pilots as instructor pilots in the OV-1 airplane.

Instruction: Course is self-paced beginning in 1976. Flight experience as instructor pilot and related academic subject matter, including principles and methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78).

Related Occupation Codes: 101C.

AR-1606-0051

CH-37 (MOJAVE) AVIATOR TRANSITION

Course Number: 2C-062D-A.

Location: Aviation School, Ft. Rucker, AL.

Length: 7 weeks (209-234 hours).

Exhibit Dates: 3/66-Present.

Objectives: To train commissioned and warrant officers in the operation of CH-37 aircraft.

Instruction: Lectures in transition flight training, CH-37 maintenance and instrumentation, and aircraft flight experience.

Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter flight training on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100D.

AR-1606-0052

CH-54 INSTRUCTOR PILOT
(CH-54 Instructor Pilot Qualification)

Course Number: 2C-F22.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6 weeks (210-237 hours).

Exhibit Dates: 11/68-2/77.

Objectives: To qualify selected commissioned and warrant officer aviators as unit instructor pilots.

Instruction: Flight experience; lectures on aircraft systems, principles of instruction, effective teaching methods, helicopter aerodynamics, precautionary measures, critical conditions, emergency procedures, and basic flight maneuvers.

Credit Recommendation: In the upper-division baccalaureate category, 3 in principles and methods of instruction (10/78).

Related Occupation Codes: 100B; 100C; 100D; 100E.

AR-1606-0053

UH-1 INSTRUCTOR PILOT
(UH-1 (Iroquois)Instructor Pilot (Transition/Gunnery) Qualification)

Course Number: 2C-F3.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-7 weeks (136-256 hours).

Exhibit Dates: 8/65-Present.

Objectives: To train selected and qualified pilots as instructor pilots in the UH-1 helicopter.

Instruction: Flight experience as instructor pilot and related academic subject matter including principles and methods of instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles and methods of instruction. Credit may be assigned after completion of Phase I (4 weeks) (10/78).

Related Occupation Codes: 100B; 100C; 100D; 100E; 102A.

AR-1606-0054

AIR CAVALRY/ATTACK HELICOPTER COMMANDER'S TRAINING

Course Number: 2E-F45.

Location: Armor School, Ft. Knox, KY.

Length: 4 weeks (124 hours).

Exhibit Dates: 9/72-Present.

Objectives: To provide officers with training in the management, organization, and tactical employment of air cavalry troop and attack helicopter companies.

Instruction: Conferences and practical exercises in management, leadership, and educational development; weapons; and command and staff procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of management (2/74).

Related Occupation Codes: 100B; 100E.

AR-1606-0055

CH-37 (MOJAVE) NATIONAL GUARD TRANSITION AND INSTRUCTOR PILOT—INSTRUCTOR PILOT PHASE

Course Number: 2C-F11.

Location: Aviation School, Ft. Rucker, AL.

Length: 8-10 weeks (273-400 hours).

Exhibit Dates: 6/65-Present.

Objectives: To train National Guard pilots to fly, and serve as instructor pilots on, CH-37 helicopters.

Instruction: Flight training; practical exercises in maintenance, instruments, and tactical subjects; and instructor pilot training.

Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter flight training and instructional methods on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B; 100C.

AR-1606-0056

CH-37 (Mojave) National Guard Transition and Instructor Pilot—Transition Phase

Course Number: 2C-F11.

Location: Aviation School, Ft. Rucker, AL.

Length: 7–10 weeks (238–385 hours).

Exhibit Dates: 6/6[illegible] Present.

Objectives: To train National Guard pilots to fly CH-37 helicopters.

Instruction: Flight training and practical exercises in maintenance, instruments, and tactical subjects.

Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter flight training on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B; 100C.

AR-1606-0057

1. AH-1G Instructor Pilot
2. AH-1G (Hueycobra) Instructor Pilot (Transition/Gunnery) Qualification

Course Number: 2C-F14.

Location: Aviation Center, Ft. Rucker, AL; Aviation Center, Ft. Stewart, GA.

Length: *Version 1:* 4–5 weeks (160–168 hours). *Version 2:* 6 weeks (229–238 hours).

Exhibit Dates: *Version 1:* 3/72–Present. *Version 2:* 2/67–2/72.

Objectives: To train selected and qualified pilots as instructor pilots in the AH-1G helicopter.

Instruction: Flight experience as instructor pilot and related academic subject matter, including principles and methods of instruction.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78) *Version 2:* In the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100E; 062B; 062C; 062D.

AR-1606-0058

AH-1G Aviator Qualification

Course Number: 2C-100E.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4–7 weeks (158–256 hours).

Exhibit Dates: 4/72–Present.

Objectives: To qualify rated pilots with transition training on AH-2G (Cobra) type helicopters.

Instruction: Lectures and practical exercises in transition flight training on AH-1G (Cobra) type helicopters, including preflight inspections, ground procedures, night operations, instrument flying, regulations, flight planning, and maintenance procedures.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in advanced helicopter flight training (10/78).

Related Occupation Codes: 100A; 102A; 100E.

AR-1606-0059

AH-1G (Hueycobra) Pilot Transition/Gunnery

Course Number: 2C-F15.

Location: Aviation School, Ft. Rucker, AL.

Length: 4–5 weeks (121–162 hours).

Exhibit Dates: 2/67–Present.

Objectives: To qualify commissioned and warrant officer aviators in the operation of AH-1G Hueycobra helicopters.

Instruction: AH-1G transition and advanced tactical flight training, and lectures and practical experience in aircraft maintenance, gunnery, rotary-wing preflight briefing, and night and instrument operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/68).

Related Occupation Codes: 100B; 100C; 100D.

AR-1606-0060

UH-1 Aviator Qualification (Navy)
(UH-1 Pilot Transition (Navy))

Course Number: 2C-F19.

Location: Aviation School, Ft. Rucker, AL.

Length: 4 weeks (139–148 hours).

Exhibit Dates: 9/68–Present.

Objectives: To train pilots in the safe operation of UH-1 helicopters and the techniques of air-to-ground helicopter gunnery operations.

Instruction: Lectures and practical experience in transition and tactical flight training, maintenance, precautionary measures, critical conditions, and emergency procedures.

Credit Recommendation: Credit is not recommended because of the military nature of the course (2/74).

AR-1606-0061

U-21 Instructor Pilot
(U-21 Standardization Instructor Pilot Qualification)

Course Number: 2B-F11.

Location: Aviation Center, Ft. Rucker, AL.

Length: Self-paced 6 weeks (196–233 hours).

Exhibit Dates: 3/68–Present.

Objectives: To train selected and qualified pilots as instructor pilots in the U-21 airplane.

Instruction: *Version 1:* Course is self-paced beginning in 1976. Flight experience as instructor pilot and related academic subject matter including principles and methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78).

Related Occupation Codes: 101C; 061C.

AR-1606-0062

HU-1 Instructor Pilot Transition
(HU-1 Instructor Pilot Transition)
(HU-1A Instructor Pilot Transition)

Course Number: 1-B-F22.

Location: Aviation School, Ft. Rucker, AL.

Length: 4–5 weeks (132–177 hours).

Exhibit Dates: 2/59–12/68.

Objectives: To qualify aviators as instructor pilots.

Instruction: Flight experience and lectures on principles and methods of instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles and methods of instruction (2/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B; 100C; 100D.

AR-1606-0063

CH-34 Instructor Pilot Qualification

Course Number: 2C-F20.

Location: Aviation School, Ft. Rucker, AL.

Length: 6 weeks (223 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train aviators as instructor pilots.

Instruction: Flight experience and lectures on aircraft principles and methods of instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles and methods of instruction (2/74).

Related Occupation Codes: 100B; 100C; 100D.

AR-1606-0064

CH-47 Aviator Qualification
(CH-47(Chinook)Pilot Transition)

Course Number: 2C-AST-1G; 2C-100C-B; 2C-062D-B; 1-B-F37.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6–8 weeks (219–268 hours).

Exhibit Dates: 8/63–Present.

Objectives: To qualify rated pilots with transition training on CH-47 (Chinook) type helicopters.

Instruction: Lectures and practical exercises in transition flight training on CH-47 aircraft, including preflight inspection, ground procedures, night operations, instrument flying, regulations, flight planning and maintenance procedures.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in advanced helicopter flight training (10/78).

Related Occupation Codes: 100B; 102A; 100C.

AR-1606-0065

Officer/Warrant Officer Fixed Wing Aviator—Primary Phase
(Warrant Officer Fixed Wing Aviator—Primary Phase)
(Officer Fixed Wing Aviator—Primary Phase)

Course Number: 1-H-1980A; 1-H-061B-B; 1-R-061B-B; 1-A-1980A.

Location: Aviation School, Ft. Rucker, AL.

Length: 16–19 weeks (604–702 hours).

Exhibit Dates: 8/60–4/65.

Objectives: To train commissioned officers in basic flying techniques and tactical employment of observation and utility fixed-wing aircraft.

Instruction: Lectures and practical exercises in utility fixed-wing and observation aircraft flying techniques, including primary and instrument flight, navigation, flight theory, and aircraft structure and systems operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in flight training, navigation, meteorology, aircraft maintenance, theory of flight, or flight experience (2/74); in the upper-division baccalaureate category, 2 semester hours in primary meteorology or navigation (12/68).

Related Occupation Codes: 100B; 100C.

AR-1606-0066

1. Officer/Warrant Officer Fixed Wing Aviator—Advanced Contact and Tactics Phase
2. Warrant Officer Fixed Wing Aviator—Advanced Contact and Tactics Phase
   (Officer Fixed Wing Aviator—Advanced Contact and Tactics Phase)
3. Officer Fixed Wing Aviator—Advanced Contact and Tactics Phase

Course Number: *Version 1:* 1-H-1980A; 1-H-061B-B. *Version 2:* 1-R-061B-B; 1-A-1980A. *Version 3:* 1-A-1980A.

Location: Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 6 weeks (219 hours). *Version 2:* 12 weeks (447–452 hours). *Version 3:* 12 weeks (443–446 hours).

Exhibit Dates: *Version 1:* 4/64–4/65. *Version 2:* 8/62–3/64. *Version 3:* 8/60–7/62.

Objectives: To train commissioned officers in advanced flying techniques and tactical employment of observation and utility fixed-wing aircraft.

Instruction: Lectures and practical exercises in utility fixed-wing and observation aircraft flying techniques, including primary and instrument flight, meteorology, flight theory, navigation, and aircraft structure and systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in advanced flight instruction, meteorology, and aircraft maintenance (2/74); in the upper-division baccalaureate category, 1 semester hour in primary meteorology (12/68). *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in advanced flight instruction, meteorology, and aircraft maintenance (2/74); in the upper-division baccalaureate category, 1 semester hour in primary meteorology (12/68). *Version 3:* In the lower-division baccalaureate/associate degree category, 5 semester hours in advanced flight instruction, meteorology, and aircraft maintenance (2/74); in the upper-division baccalaureate category, 1 semester hour in primary meteorology (12/68).

Related Occupation Codes: 100B; 100C.

AR-1606-0067

Officer/Warrant Officer Fixed Wing Aviator—Instruments Phase
(Warrant Officer Fixed Wing Aviator—Instruments Phase)
(Officer Fixed Wing Aviator—Instruments Phase)

Course Number: 1-H-1980A; 1-H-061B-B; 1-R-061B-B; 1-A-1980A.

Location: Aviation School, Ft. Rucker, AL.

Length: 9–10 weeks (335–363 hours).

Exhibit Dates: 8/60–4/65.

Objectives: To train commissioned officers in basic flying techniques and tactical employment of observation and utility fixed-wing aircraft.

Instruction: Lectures and practical exercises in utility fixed-wing and observation aircraft instrument flying techniques and instrument flight theory.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in instrument flight or instrument flight theory (2/74).

Related Occupation Codes: 100B; 100C.

AR-1606-0068

Officer/Warrant Officer Fixed Wing Aviator

Course Number: *All Versions:* 2B-1980-A; 2B-061B-B; 2B-061C-B. *Version 1:* 2B-101B-A; 2B-101C-A; 2B-101B-B; 2B-101C-B.

Location: Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 33 weeks (1203–1244 hours). *Version 2:* 36 weeks (1301–1339 hours).

Exhibit Dates: *Version 1:* 1/67–Present. *Version 2:* 5/65–12/66.

Objectives: To provide commissioned officers with the knowledge and skills necessary to qualify as fully rated instrument pilots.

Instruction: Lectures and practical exercises in utility fixed-wing aircraft instrument flying techniques, basic flight training, meteorology, navigation, flight theory, aircraft maintenance, and aerodynamics.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 23 semester hours in flight experience and instruction, meteorology, navigation, maintenance, aerodynamics, or flight theory (2/74); in the upper-division baccalaureate category, 3 semester hours in primary meteorology or navigation (12/68). *Version 2:* In the lower-division baccalaureate/associate degree category, 21 semester hours in flight experience and instruction, meteorology, navigation, maintenance, aerodynamics, or flight theory (2/74); in the upper-division baccalaureate category, 3 semester hours in primary meteorology or navigation (12/68).

Related Occupation Codes: 100B; 100C.

AR-1606-0069

1. Flight Simulator Specialist
   (Flight Simulator Operations and Maintenance)
2. Flight Simulator Operations and Maintenance

Course Number: 191-93D20, 1-R-902.1.

Location: Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 11–16 weeks (398–547 hours). *Version 2:* 8 weeks (300 hours).

Exhibit Dates: *Version 1:* 4/61–Present. *Version 2:* 2/57–3/61.

Objectives: To qualify enlisted personnel as operators and instructors in simulated-flight training.

Instruction: Lectures and practical experience in radio navigation, aircraft control and simulated instrument flight, and principles of instruction.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in radio navigation, 3 in principles of instruction (2/74). *Version 2:* In the vocational certificate category, 6 semester hours in flight simulator operation/maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in flight simulator operation/ maintenance (2/74).

Related Occupation Codes: 93D.

AR-1606-0070

Officer/Warrant Officer Rotary Wing Qualification (Reserve Component/Allied)
(Officer/Warrant Officer Rotary Wing Qualification)

Course Number: 2C-1981-A; 2C-100B-A; 2C-062B-A.

Location: Aviation School, Ft. Rucker, AL.

Length: 8 weeks (277–286 hours).

Exhibit Dates: 2/66–Present.

Objectives: To qualify fixed-wing aircraft pilots as helicopter pilots.

Instruction: Flight experience and lectures on helicopter theory of flight and aerodynamics, and maintenance of helicopters.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in flight experience (2/74); in the upper-division baccalaureate category, credit in helicopter flight training on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B.

AR-1606-0071

AH-1S (TOW) Cobra Aviator Qualification
(Tow Cobra Aviator Qualification)

Course Number: 2C-F29.

Location: Aviation Center, Ft. Rucker, AL.

Length: 2–3 weeks (61–90 hours).

Exhibit Dates: 11/75–Present.

Objectives: To qualify selected AH-1G pilots and instructor pilots in the AH-1Q (TOW) Cobra.

Instruction: Lectures and practical exercises in AH-1Q academic subjects and AH-1Q flight subjects.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (10/78).

Related Occupation Codes: 100E; 102A.

AR-1606-0072

General Officer Rotary Wing Qualification

Course Number: None.

Location: Aviation School, Ft. Rucker, AL.

Length: 5 weeks (206 hours).

Exhibit Dates: 1/67–12/68.

Objectives: To qualify aviators as helicopter pilots.

Instruction: Flight experience, and lectures on helicopter theory of flight, meteorology, navigation, and aircraft maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in flight experience, flight theory, meteorology, navigation, or aircraft maintenance (2/74); in the upper-division baccalaureate category, credit in helicopter flight training on the basis of institutional evaluation (12/68).

AR-1606-0073

General Officer Rotary Wing Flight Training

Course Number: 1-A-1981G.

Location: Aviation School, Ft. Rucker, AL.

Length: 16 weeks (548 hours).

Exhibit Dates: 4/59–12/68.

Objectives: To qualify aviators as helicopter pilots.

Instruction: Flight experience, and lectures and practical application of navigational techniques, meteorology, aircraft maintenance, flight physiology, and instrument flight theory.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in flight experience, navigation, meteorology, aircraft maintenance, or flight physiology (2/74); in the upper-division baccalaureate category, credit in meteorology and navigation on the basis of institutional evaluation (12/68).

AR-1606-0074

Officer/Warrant Officer Rotary Wing Aviator (ORWAC/WORWAC)

(Initial Entry Rotary Wing Aviator)

Course Number: 2C-15A; 2C-100B; 2C-100G; 2C-100B-C; 2C-1981-B; 2C-100B-B; 2C-062B-B; 1-H-1981B; 1-H-062B; 1-H-062C; 1-R-062B-C; 1-R-062C-C; 1-B-1981B; 1-A-1981B; 1-R-1981C; 1-N-1981C.

Location: Aviation School, Ft. Rucker, AL; Primary Helicopter School, Ft. Wolters, TX.

Length: 28–36 weeks (967–12954 hours).

Exhibit Dates: 3/59–Present.

Objectives: To train selected and qualified officers, warrant officers and (beginning mid-1978) warrant officer candidates in primary rotary wing flying techniques and helicopter use.

Instruction: Flight experience and lectures on aerodynamics, meteorology, navigation, aircraft maintenance, instrument flight theory, and aviation physiology. This course is equivalent to the private and commercial pilot requirements.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 21 semester hours in primary helicopter flight training subjects or flight experience, aerodynamics, meteorology, navigation, aircraft maintenance, aviation physiology (10/78).

Related Occupation Codes: 100B.

AR-1606-0075

Warrant Officer Candidate Rotary Wing Aviator

Course Number: *All Versions:* 2C-100B-C. *Version 2:* 2C-062B-C. *Version 3:* 2C-062B-C.

Location: Primary Helicopter School, Ft. Wolters, TX; Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 38 weeks (1304 hours). *Version 2:* 36–38 weeks (1321–1385 hours). *Version 3:* 36 weeks (1342 hours).

Exhibit Dates: *Version 1:* 8/74–9/78. *Version 2:* 4/68–7/74. *Version 3:* 10/65–3/68.

Objectives: To qualify warrant officer candidates as helicopter pilots.

Instruction: For warrant officers candidate training after 9/78, see AR-1606-0074. Lectures and practical training in flight experience, aerodynamics, meteorology, navigation, aircraft maintenance, instrument flight theory, and aviation physiology.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 18 semester hours in primary helicopter training, meteorology, navigation, aircraft systems fundamentals, and instrument flight training (6/75). *Version 2:* In the lower-division baccalaureate/associate degree category, 21 semester hours in flight experience (2/74). *Version 3:* In the lower-division baccalaureate/associate degree category, 21 semester hours in flight experience (2/74); in the upper-division baccalaureate category, 3 semester hours in primary meteorology and navigation, and additional credit in helicopter flight training on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B; 100C.

AR-1606-0076

Military Intelligence Officer Advanced

2. Emphasis is on personal managerial skills, communicative arts, and interrelatedness of organizational systems.

Course Number: *Version 1:* 3-30-C22. *Version 2:* 3-30-C22. *Version 3:* 3-30-C22. *Version 4:* 30-A-C4.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2 :* Intelligence School, Ft. Huachuca, AZ. *Version 3 :* Intelligence School, Ft. Holabird, MD. *Version 4 :* Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 26 weeks (834 hours). *Version 2:* 26–33 weeks (26–1013 hours). *Version 3:* 36 weeks (1094–1151 hours). *Version 4:* 38 weeks (1140 hours).

Exhibit Dates: *Version 1:* 10/79–Present. *Version 2:* 10/73–9/79. *Version 3:* 7/67–9/73. *Version 4:* 12/57–6/67.

Objectives: To train commissioned officers to perform as intelligence officers at command and staff levels.

Instruction: *All Versions:* Lectures and practical exercises in intelligence functions, including command and staff procedures, organization and tactics of foreign armies, tactics and combined arms, and domestic emergencies. *Version 3:* Includes comparative government and foreign policies, legal principles, effective speaking and writing, national defense structure, air defense and civil affairs, communications, map reading, Army management, intelligence and security procedures and agencies, counterintelligence, and electives in communication, government and politics, management, and military arts.

Credit Recommendation: *Version 1:* Pending evaluation *Version 2:* In the upper-division baccalaureate category, 6 semester hours in personnel administration/management, 3 in oral and written communication, and 3 in world area studies (U.S.S.R.) (6/79) *Version 3:* In the upper-division baccalaureate category, 6 semester hours in intelligence methods, 3 in business organization and management, and, on the basis of institutional evaluation credit in political science (12/68). *Version 4:* In the upper-division baccalaureate category, 6 semester hours in intelligence methods, 3 in business organization and management, 6 in political science (12/68).

AR-1606-0077

Associate Military Intelligence Officer Advanced

Course Number: 30-A-C5.

Location: Intelligence School, Ft. Holabird, MD.

Length: 14 weeks (496 hours).

Exhibit Dates: 12/57–12/68.

Objectives: To provide commissioned officers with advanced intelligence training.

Instruction: Lectures and practical exercises in staff types and organization principles, staff officer functions, records and reports, personnel morale and services, information programs, Congressional relations, personnel educational development, management medical services, methods of instruction, military justice, and leadership and problems of command.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in intelligence methods, and credit in political science on the basis of institutional evaluation (12/68).

AR-1606-0078

Military Intelligence (Analysis) Enlisted

Course Number: 30-R-971.7.

Location: Intelligence School, Ft. Holabird, MD.

Length: 14 weeks (490 hours).

Exhibit Dates: 12/57–12/68.

Objectives: To train enlisted personnel to collect, evaluate, and disseminate information pertaining to espionage, treason, and subversive activities, and to conduct background investigations of military and civilian personnel.

Instruction: Lectures in military science, general intelligence methods and counterintelligence methods, national military establishment organization, intelligence units administration, investigative reports, expository writing and oral expression, combat operations, investigative legal principles, map reading, and physical conditioning.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AR-1606-0079

Communications Security Analyst

(Communications Security Analysis)

Course Number: 231-05G30; 232-98D20.

Location: Security Agency School, Ft. Devens, MA.

Length: 8–9 weeks (283 hours).

Exhibit Dates: 6/64–3/77.

Objectives: To train enlisted personnel to advise and assist the commander in communications security matters.

Instruction: Lectures and practical exercises in national defense organization, Army organizations and commands, intelligence organizations and functions, map reading introduction, message drafting and signal communications procedures, cryptologic material security requirements, crypto-security administration, and communication cover and deception.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (5/74).

Related Occupation Codes: 05G.

AR-1606-0080

Counterintelligence Officer Transition

(Intelligence Research Officer Transition)

Course Number: 3C-9666-B.

Location: Intelligence School, Ft. Huachuca, AZ; Intelligence School, Ft. Holabird, MD.

Length: 7 weeks (234–264 hours).

Exhibit Dates: 8/66–Present.

Objectives: To train intelligence officers and technicians in the security, operational, and legal aspects of counterintelligence operations.

Instruction: Lectures and practical exercises in the security, operational, and legal aspects of counterintelligence operations, including security investigations, review of criminal law, evidence, guarantees and rights of the individual, self-incrimination, interrogation procedures, personnel security investigations, countersabotage, counterespionage, and search and seizure.

Credit Recommendation: In the vocational certificate category, 2 semester hours in intelligence methods (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in intelligence methods (4/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (12/68).

Related Occupation Codes: 971A; 972A.

AR-1606-0081

ORDER OF BATTLE INTELLIGENCE OFFICER

Course Number: 30-A-9318.

Location: Intelligence School, Ft. Holabird, MD.

Length: 10 weeks (350 hours).

Exhibit Dates: 11/57–12/68.

Objectives: To train commissioned officers in intelligence, counterintelligence, and special intelligence operations.

Instruction: Lectures and practical exercises in military organization, tactics, and operations, including atomic warfare, guided missiles, defensive and offensive combat, tactical air operations, and map and photograph reading; general intelligence orientation, interrogation, technical intelligence, and weather and terrain; organization and tactics of selected foreign armies; and order-of-battle organization, principles, procedures, and techniques.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AR-1606-0082

MILITARY INTELLIGENCE OFFICER ORIENTATION

Course Number: 3-30-C21; 3A-F1.

Location: Intelligence School, Ft. Holabird, MD.

Length: 4–6 weeks (142–211 hours).

Exhibit Dates: 7/65–12/68.

Objectives: To teach commissioned officers the principles of intelligence organization, doctrine, techniques, and operations.

Instruction: Lectures and practical exercises in the principles of intelligence organization, doctrine, techniques, and operations, including order of battle; interrogation; imagery interpretation; intelligence collection, production, and dissemination; counterintelligence; and security.

Credit Recommendation: In the vocational certificate category, 2 semester hours in intelligence methods (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in intelligence methods (4/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (12/68).

AR-1606-0083

SPECIAL FORCES OFFICER INTELLIGENCE

Course Number: 3C-F11.

Location: Intelligence School, Ft. Holabird, MD.

Length: 6 weeks (217 hours).

Exhibit Dates: 2/67–12/68.

Objectives: To teach basic intelligence and counterintelligence techniques to intelligence staff or special forces commissioned officers.

Instruction: Lectures and practical exercises in basic intelligence and counterintelligence techniques, including functions of intelligence staff officers, combat intelligence organization, interrogation and aerial surveillance and reconnaissance, nuclear warfare, communication security, and order of battle.

Credit Recommendation: In the vocational certificate category, 2 semester hours in intelligence methods (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in intelligence methods (5/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (12/68).

AR-1606-0084

1. IMAGE INTERPRETOR (ENLISTED)
2. IMAGE INTERPRETATION (ENLISTED)
3. IMAGE INTERPRETATION (ENLISTED)
   (Photointerpretation Enlisted)

Course Number: *Version 1:* 242-96D20. *Version 2:* 242-96D20. *Version 3:* 30-R-969.1.

Location: Intelligence School, Ft. Holabird, MD; Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* Self-paced 3–17 weeks (100–550 hours). *Version 2:* 13 weeks (390–465 hours). *Version 3:* 17–19 weeks (595–655 hours).

Exhibit Dates: *Version 1:* 1/74–3/79. *Version 2:* 4/67–12/73. *Version 3:* 8/57–3/67.

Objectives: To train enlisted personnel to perform as tactical image and photo interpreters.

Instruction: *All Versions:* Lectures and practical exercises in the interpretation of tactical images or photos; in aerial surveillance and military organization, planning, and operations; operation of intelligence teams; map reading and terrain analysis techniques; intelligence procedures; photo reading fundamentals and interpretation; photogrammetry; and tactics and military information. *Version 1:* Course has lectures, laboratories and self-paced instruction in the interpretation of aerial photographs and images.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in general college mathematics to include algebra and trigonometry, 3 in introduction to maps and air photos (6/79); in the upper-division baccalaureate category, 3 semester hours in aerial photo and image interpretation, 3 in photogrammetry (6/79) *Version 2:* In the upper-division baccalaureate category, 3 semester hours in imagery interpretation (12/68). *Version 3:* In the upper-division baccalaureate category, 5 semester hours in photographic interpretation (12/68).

Related Occupation Codes: 96D.

AR-1606-0085

INTELLIGENCE STAFF OFFICER

Course Number: 30-A-9301.

Location: Intelligence School, Ft. Holabird, MD.

Length: 10 weeks (350 hours).

Exhibit Dates: 9/57–12/68.

Objectives: To train commissioned officers to perform as intelligence staff officers.

Instruction: Lectures and practical exercises in the duties of intelligence staff officers, including tactics and operations, map and photo reading, atomic warfare, organization and tactics of selected foreign armies, planning and briefings, communications reconnaissance, counterintelligence, security, interrogation, and order of battle.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AR-1606-0086

ELECTRONIC WARFARE (EW) CRYPTOLOGIC TACTICAL OPERATIONS OFFICER

Course Number: 3-30-37A.

Location: Intelligence School, Ft. Devens, MA.

Length: 11 weeks (377 hours).

Exhibit Dates: 8/76–Present.

Objectives: To prepare company-grade officers for assignment to tactical electronic warfare cryptologic units.

Instruction: Course covers a review of basic electrical circuits, receivers, transmitters, and electron devices. Specific topics include signal intelligence, tactical communications, and electronic countermeasures.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (9/77).

AR-1606-0087

OH-6 AVIATOR QUALIFICATION

Course Number: 2C-F26.

Location: Aviation School, Ft. Rucker, AL.

Length: 2 weeks (79 hours).

Exhibit Dates: 3/72–Present.

Objectives: To qualify commissioned and warrant officers to fly OH-6 aircraft.

Instruction: Lectures and practical exercises on the OH-6 aircraft, including transition flight training; briefing for night operation; maintenance subjects; power plant; fuel and oil systems; transmission systems; vibrations and tracking; weight and balance; test flight requirements; tactical subjects; XM27E1 introduction; and M134 disassembly, assembly, and troubleshooting.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

Related Occupation Codes: 100B.

AR-1606-0088

AIR OBSERVER

Course Number: 1-A-F7.

Location: Aviation School, Ft. Rucker, AL.

Length: 8 weeks (303 hours).

Exhibit Dates: 5/57–12/68.

Objectives: To train commissioned officers to perform as air observers.

Instruction: Lectures and practical exercises in the functions of air observers, including general tactical subjects; engineer reconnaissance techniques and FEX; organization and equipment of aggressor-type units; combat intelligence; photo interpretation; intelligence FEX; joint air-ground operations; fire support; signal tactical subjects; flight subjects; general subjects; and tactical maps and photos.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/68).

AR-1606-0089

U-8 INSTRUCTOR PILOT
(U-8 Instructor Pilot Qualification)

Course Number: 2B-F14.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4 weeks (155–159 hours).

Exhibit Dates: 2/69–2/77.

Objectives: To train aviators to perform as U-8 instructor pilots.

Instruction: Lectures and practical exercises in the functions of instructor pilots for the conduct of U-8 aircraft standardization and transition training, including MOI flight training (U-8); review of normal flight procedures and introduction to MOI techniques; emergency procedures; MOI for instrument flight procedures; aircraft systems familiarization; utility; electrical, propeller, landing gear, and brake systems; power plant and related systems; MOI flight subjects; and aviation medicine and life support.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78).

Related Occupation Codes: 100C.

AR-1606-0090

Helicopter Door Gunner Qualification

Course Number: 600-67A1F.

Location: Aviation School, Ft. Rucker, AL.

Length: 3 weeks (112-118 hours).

Exhibit Dates: 4/68-Present.

Objectives: To qualify aircraft maintenance crewmen to perform as helicopter door gunners.

Instruction: Lectures and practical exercises in providing suppressive light automatic weapons fire and general armed security for assault- and cargo-class helicopters conducting tactical operations, and on the maintenance of the aircraft, including environmental training; attack helicopter orientation flight; duties of door gunners; visual search and target detection; M21 and M23 armament subsystem introduction; gunnery training; M23 aerial gunnery; and UH-1 maintenance subjects.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 67A.

AR-1606-0091

U-21 Aviator Qualification

Course Number: 2B-F17; 2B-F10.

Location: Aviation School, Ft. Rucker, AL.

Length: 3-4 weeks (123-151 hours).

Exhibit Dates: 10/67-Present.

Objectives: To train commissioned and warrant officers who have aeronautical designation and instrument rating (fixed wing), and who are multiengine qualified, to operate U-21 airplanes.

Instruction: Lectures and practical exercises in the operation of U-21 airplanes, including flight briefing; preflight inspection and ground procedures; visual flight transition training; instrument flight transition training; hood or AI; procedures trainer; regulations and ATC; TACAN; weather flight planning and airborne weather radar; instruments and radios; landing gear and brake systems; fuel systems and performance data charts; electrical, utility, propeller, power plant and related systems; weight and balance; and test flight requirements.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 100C; 100D.

AR-1606-0092

OV-1 (Mohawk) Aviator Combat Surveillance Qualification

Course Number: 3A-F14.

Location: Intelligence School, Ft. Huachuca, AZ; Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ; Combat Surveillance School, Ft. Huachuca, AZ.

Length: 2-4 weeks (92-165 hours).

Exhibit Dates: 9/67-Present.

Objectives: To train OV-1 aviators in aerial radar, infrared, camera and Doppler navigation systems, and in the organization and operations of aerial surveillance units.

Instruction: Lectures and practical exercises in OV-1 (Mohawk) aviator combat surveillance, including surveillance aircraft orientation; AN/ASN-64 Doppler navigation system; specific EW and radar warning receivers and countermeasures sets; and specific photographic, camera, electronic flasher, radar, and infrared surveillance systems.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 100R.

AR-1606-0093

1. Fixed Wing Instrument
2. Fixed Wing Instrument Qualification

Course Number: *Version 1:* 2B-101C-E. *All Versions:* 2B-F3; 2B-101C-E. *Version 2:* 2B-061C-E; 1-B-F40.

Location: Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 7-8 weeks (260-299 hours). *Version 2:* 8-10 weeks (307-359 hours).

Exhibit Dates: *Version 1:* 1/71-Present. *Version 2:* 1/65-12/70.

Objectives: To qualify pilots for instrument flight in fixed-wing aircraft.

Instruction: Lectures and practical exercises in instrument flight training, aircraft systems maintenance, aviation medicine and life support, radio navigation, airport surveillance radar, navigational computer, approach procedures, holding, instrument landing system, communications failure, pressure and winds, weather maps, teletype reports, synthetic flight training, and trainer planning.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in instrument flight qualifications (6/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in instrument flight qualifications (6/74); in the upper-division baccalaureate category, credit in instrument flying on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100C.

AR-1606-0094

Strategic Signal Intelligence Officer (Strategic SIGINT Officer)

Course Number: 3-30-37B.

Location: Intelligence School, Ft. Devens, MA.

Length: 8 weeks (277 hours).

Exhibit Dates: 1/77-Present.

Objectives: To train military intelligence officers to supervise and manage activities at U.S. intelligence and security command field stations and to assume strategic cryptologic staff officer assignments.

Instruction: Course contains a review of basic electrical circuits, receivers, transmitters, and electron devices. Specific topics include message format and introduction to cryptologic analysis.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (9/77).

AR-1606-0095

Army (Aviator) Transport Pilot–Phases I, II and III (Rotary Wing)

Course Number: 1-R-F10.

Location: *Version 1:* Primary Helicopter School, Ft. Wolters, TX. *Version 2:* Aviation School, Ft. Rucker, AL.

Length: 34 weeks (1294 hours).

Exhibit Dates: 2/58-12/68.

Objectives: To train enlisted personnel to pilot transport helicopters.

Instruction: Lectures and practical exercises in the duties of transport helicopter pilots, including basic officer orientation, primary and basic rotary-wing training, light helicopter transition, basic instrument flight familiarization and training, light transport helicopter day-and-night cross-country training, and maintenance, and tactical subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in commercial pilot training (6/74); in the upper-division baccalaureate category, 3 semester hours in primary meteorology and navigation, and credit in helicopter flight training on the basis of demonstrated skills and/or institutional (12/68).

Related Occupation Codes: 100B; 100C; 100D.

AR-1606-0096

CV-2 (Caribou) Instructor Pilot Qualification

Course Number: 2B-F6.

Location: Aviation School, Ft. Rucker, AL.

Length: 6 weeks (238 hours).

Exhibit Dates: 6/65-12/68.

Objectives: To train aviators as instructor pilots in CV-2 aircraft.

Instruction: Lectures and practical exercises in instructing enlisted personnel in the operation of CV-2 aircraft. Topics include flight training, tactical flight operations, and aircraft systems and maintenance.

Credit Recommendation: In the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100C.

AR-1606-0097

Rotary Wing Instrument Qualification

Course Number: 2C-F12.

Location: Aviation School, Ft. Rucker, AL.

Length: 5 weeks (222 hours).

Exhibit Dates: 2/67-12/68.

Objectives: To qualify aviators for helicopter instrument flight.

Instruction: Lectures and practical exercises in helicopter instrument flight. Academic course work includes enroute and approach charts, radio navigation, flight regulations, air traffic control, dead reckoning computer, flight planning and navigation, operation of tactical and airborne radios and transponders, and tactical instrument procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in instrument rating (6/74); in the upper-division baccalaureate category, credit in instrument flying on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B; 100C; 100D.

AR-1606-0098

Warrant Officer Candidate Preflight Indoctrination—Fixed Wing

Course Number: 2B-F8.

Location: Primary Helicopter School, Ft. Wolters, TX.

Length: 4 weeks (140 hours).

Exhibit Dates: 5/66-12/68.

Objectives: To train enlisted personnel as warrant officer aviators.

Instruction: Lectures and practical exercises in the duties of warrant officer aviators. Course consists largely of leadership and military-related subjects.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

Related Occupation Codes: 100Q; 100R.

AR-1606-0099

Army Aviation Tactics Refresher

Course Number: 1-A-F4.

Location: Aviation School, Ft. Rucker, AL.

Length: 4 weeks (140 hours).

Exhibit Dates: 4/57-12/68.

Objectives: To train aviators to employ aircraft and allied equipment in tactical support of combat operations.

Instruction: Lectures and practical exercises in aircraft and allied equipment employment in support of combat operations. Course includes flight training refresher, navigation, gunnery, tactical communications, and instrument techniques.

Credit Recommendation: Credit is not recommended because of the militery specific nature of the course (12/68).

AR-1606-0100

H-13/H-34 Transition Flight Training

Course Number: 1-0-25.

Location: Aviation School, Ft. Rucker, AL.

Length: 13 weeks (483 hours).

Exhibit Dates: 2/57-12/68.

Objectives: To train fixed-wing pilots to fly and operate rotary-wing aircraft.

Instruction: Lectures and practical exercises in the operation of H-13 and H-34 helicopters.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter flight training (6/74).

AR-1606-0101

Army H-37 Helicopter Pilot's Transition Flight Training

Course Number: Not available.

Location: Aviation School, Ft. Rucker, AL.

Length: 4 weeks (143 hours).

Exhibit Dates: 7/57-12/68.

Objectives: To train selected enlisted personnel to command and pilot H-37 transport helicopters.

Instruction: Lectures and practical exercises in piloting and commanding H-37 helicopters. Course includes transition flight training, maintenance, and tactical subjects.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

Related Occupation Codes: 100C.

AR-1606-0102

Army Transport Helicopter Pilot-Phase III

Course Number: 1-H-1981B.

Location: Aviation School, Ft. Rucker, AL.

Length: 14 weeks (490 hours).

Exhibit Dates: 10/57-12/68.

Objectives: To train commissioned and warrant officers and qualified enlisted personnel to pilot transport helicopters in aviation units and ambulance detachments.

Instruction: Lectures and practical exercises in piloting a transport helicopter. Course includes light cargo helicopter flight, instrument flight, day-and-night cross-country flight, aircraft maintenance, and tactical operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

Related Occupation Codes: 100C.

AR-1606-0103

H-13/H-19 Transition Flight Training

Course Number: 1-0-23.

Location: Aviation School, Ft. Rucker, AL.

Length: 13 weeks (483 hours).

Exhibit Dates: 2/57-12/68.

Objectives: To train aviators who have had previous experience in fixed-wing aircraft to operate H-13 and H-19 helicopters.

Instruction: Lectures and practical exercises in the operation and tactical employment of H-13 and H-19 helicopters.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter flight training (6/74).

AR-1606-0104

U-8D Aviator Qualification
(U-8D (Seminole) Aviator Qualification)

Course Number: 2B-F16; 2B-F15; 2B-101C-D; 2B-061C-C.

Location: Aviation School, Ft. Rucker, AL.

Length: 3-4 weeks (128-159 hours).

Exhibit Dates: 1/69-Present.

Objectives: To train commissioned and warrant officer pilots in the operation of U-8D (Seminole) airplanes.

Instruction: Lectures and practical exercises in the operation of U-8D (Seminole) airplanes, including transition flight training; briefing, preflight inspection, and ground procedures; general flight orientation; normal take-offs and landings; night operations; engine-out procedures; flight controls; maintenance of landing gear and brakes; electrical, utility, propeller, fuel, and power systems; synthetic instrument training; and instrument proficiency.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

Related Occupation Codes: 100B; 100C.

AR-1606-0105

Army Aviator Helicopter

Course Number: 1-A-1981A.

Location: Aviation School, Ft. Rucker, AL.

Length: 10 weeks (396 hours).

Exhibit Dates: 9/57-12/68.

Objectives: To train fixed-wing aviators to perform as helicopter pilots.

Instruction: Lectures and practical exercises in the duties and skills necessary to perform as helicopter pilots. Course includes preflight, basic flight techniques, advanced flight maneuvers, maintenance of rotary wing vehicles, and tactical flight maneuvers.

Credit Recommendation: In the vocational certificate category, 3 semester hours in flight training (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in flight training (6/74).

AR-1606-0106

Army Helicopter Transport Tactical

Course Number: 1-A-F12.

Location: Aviation School, Ft. Rucker, AL.

Length: 7 weeks (277 hours).

Exhibit Dates: 3/57-12/68.

Objectives: To train key aviator personnel to pilot transport helicopters.

Instruction: Lectures and practical exercises in transport helicopter operations, including helicopters in transport and utility operations; cross-country flights; and tactical operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

AR-1606-0107

Army Aviation Tactics

Course Number: 1-A-1980.

Location: Aviation School, Ft. Rucker, AL.

Length: 19 weeks (712-715 hours).

Exhibit Dates: 9/57-12/68.

Objectives: To train commissioned officers who have had primary flight training to perform as fixed-wing aviators.

Instruction: Lectures and practical exercises in Army aviation tactics, including advanced flight training, tactical subjects, general subjects, advanced hood or actual instrument flight training, general instrument flight subjects, and MOI academics seminar.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in commercial and instrument pilot training (6/74); in the upper-division baccalaureate category, 3 semester hours in weather interpretation and elementary navigation (12/68).

AR-1606-0108

Instrument Flight Examiner

Course Number: 1-A-2519.

Location: Aviation School, Ft. Rucker, AL.

Length: 4 weeks (154 hours).

Exhibit Dates: 5/57-12/68.

Objectives: To qualify instrument aviators as instrument flight examiners.

Instruction: Lectures and practical exercises in instrument flight examiner duties, including advanced hood or actual instrument flight training; flight and synthetic flight review; instrument navigation techniques and procedures; radio ranges (all types) and systems; ILS; radio compass; loop and ADF procedures; general instrument flight subjects; Jeppesen manual; regulations; flight service; ATC; E6B computer; IFR navigation; weather; instrument flying trends and equipment; and GCA.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-1606-0109

U1-A Transition Flight Training

Course Number: 1-A-F9.

Location: Aviation School, Ft. Rucker, AL.

Length: 3 weeks (110 hours).

Exhibit Dates: 12/56-12/68.

Objectives: To train commissioned officers and pilots to operate U1-A aircraft.

Instruction: Lectures and practical exercises in the operation of the U1-A aircraft. Course includes basic and advanced maneuvers, and maintenance as it pertains to safe operations and tactics.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-1606-0110

AVIATION OFFICER (ADVANCED)

Course Number: 1-A-F2.
Location: Aviation School, Ft. Rucker, AL.
Length: 8 weeks (280 hours).
Exhibit Dates: 6/57-12/68.
Objectives: To train qualified pilots to manage aviation training.
Instruction: Lectures and practical exercises in the management of aviation training activities at the advanced level. Course includes military organization, staff functions and responsibilities, supply and maintenance functions, and research and development testing.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/68).

AR-1606-0111

FIXED WING MULTI-ENGINE QUALIFICATION

Course Number: 2B-15A; 2B-1980; 2B-101C-H.
Location: Aviation Center, Ft. Rucker, AL.
Length: 10-15 weeks (366-649 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train commissioned or warrant officers for multiengine aircraft qualification and for an FAA instrument rating.
Instruction: Lectures and practical exercises in fixed-wing aircraft flight techniques, including contact flight training systems familiarization, principles of flight, contact transition flight training synthetic flight training, instrument academic subjects, and aviation medicine and life support.
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in multiengine flight, 3 in instrument flight, and 3 in instrument ground training (10/78).

AR-1606-0112

ARMY AVIATOR BASIC FLIGHT TRAINING (HELICOPTER)

Course Number: 1-OE-6.
Location: Aviation School, Ft. Rucker, AL.
Length: 12 weeks (483 hours).
Exhibit Dates: 6/55-6/57.
Objectives: To train personnel for assignment to pilot positions in helicopter-equipped Army transport aviation units and medical service ambulance detachments.
Instruction: Lectures and practical exercises in helicopter flight training, including intermediate and advanced rotary-wing flight training, basic instrument flight training, cross-country flight training, general subjects, tactical subjects for warrant officer candidates and aviation maintenance subjects.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in first aid and hygiene, and credit in helicopter flight training on the basis of institutional evaluation (12/68).
Related Occupation Codes: 100C.

AR-1606-0113

SENIOR ARMY OFFICER FLIGHT TRAINING

Course Number: 1-O-14.
Location: Aviation School, Ft. Rucker, AL.
Length: 35 weeks (1217 hours).
Exhibit Dates: 8/55-12/68.
Objectives: To train senior officers as fixed-wing and helicopter pilots.
Instruction: Lectures and practical exercises in the skills necessary to perform in aviation command and staff positions and to perform as fixed-wing and helicopter pilots. Course includes basic and advanced flight training (both fixed-wing and helicopter), selected maintenance subjects, meteorology, navigation, and tactical subjects.
Credit Recommendation: In the vocational certificate category, 6 semester hours in commercial flight, 6 in helicopter flight, 4 in navigation, and 4 in meteorology (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in commercial flight, 3 in helicopter flight, 2 in navigation, and 2 in meteorology (7/74); in the upper-division baccalaureate category, 2 semester hours in elementary navigation and meteorology (12/68).

AR-1606-0114

WARRANT OFFICER INDOCTRINATION TRAINING—PREFLIGHT (FIXED WING)

Course Number: 1-R-F35.
Location: Aviation School, Ft. Rucker, AL.
Length: 4 weeks (149 hours).
Exhibit Dates: 7/63-6/66.
Objectives: To provide noncommissioned officers with preflight training.
Instruction: Lectures and practical exercises in preparation for flight training. Course is primarily an indoctrination course which reviews the overall military system and procedures.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).
Related Occupation Codes: 100R; 106A.

AR-1606-0115

IMAGE INTERPRETER ENLISTED

Course Number: 242-96D10.
Location: Intelligence School, Ft. Huachuca, AZ.
Length: Self-paced 10 weeks (428 hours).
Exhibit Dates: 4/79-Present.
Objectives: To train personnel to perform air photo interpretation and photogrammetry with application to intelligence and environmental analysis.
Instruction: Course includes lectures, laboratories, and self-paced instruction in the interpretation of aerial photos and images; map reading and the identification and anaylsis of physical and cultural features of the earth's surface, and limited photogrammetry.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory college mathematics, 3 in introduction to maps and air photos (6/79); In the upper-division baccalaureate category, 3 seemester hours in aerial photo and image interpretation, 2 in photogrammetry (6/79).
Related Occupation Codes: 96D.

AR-1606-0116

CV-2 (CARIBOU) PILOT TRANSITION

(AC-1 (Caribou) Aviator Transition)

Course Number: 2B-061C; 1-B-061C; 1-B-F29.
Location: Aviation School, Ft. Rucker, AL.
Length: 6-7 weeks (190-233 hours).
Exhibit Dates: 12/61-12/68.
Objectives: To train fixed-wing aviators to operate multiengine short-takeoff-and-landing (STOL) aircraft.
Instruction: Lectures and practical exercises in the operation of multiengine short-takeoff-and-landing (STOL) aircraft. Course includes transition flight training, CV-2 specific maintenance subjects, medical subjects, and tactical aircraft usage.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/74).
Related Occupation Codes: 100C.

AR-1606-0117

GENERAL OFFICER FIXED WING FLIGHT TRAINING

Course Number: 1-A-1980G.
Location: Aviation School, Ft. Rucker, AL.
Length: 18 weeks (612 hours).
Exhibit Dates: 5/59-12/68.
Objectives: To train general officers to pilot fixed-wing aircraft.
Instruction: Lectures and practical exercises in piloting fixed-wing aircraft. Course includes flight training, instrument training, tactical subjects, aviation maintenance, aviation regulations and procedures, and meteorology.
Credit Recommendation: In the upper-division baccalaureate category, credit in elementary navigation and meteorology on the basis of institutional evaluation (12/68).

AR-1606-0118

H-37 HELICOPTER PILOT TRANSITION TRAINING

Course Number: 1-B-F11.
Location: Aviation School, Ft. Rucker, AL.
Length: 6 weeks (224-228 hours).
Exhibit Dates: 2/59-12/68.
Objectives: To train selected commissioned officers and warrant officers in transition flight training in the H-37 helicopter.
Instruction: Lectures and practical exercises in the operation of the H-37 helicopter. Course includes transitional flight training, systems operation, and maintenance of the H-37 helicopter.
Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter flight training on the basis of institutional evaluation (12/68).
Related Occupation Codes: 100C.

AR-1606-0119

ARMY HELICOPTER TRANSPORT TACTICAL (H-21)(H-34)

(Army Helicopter Transport Tactical (H-21))
(Army Helicopter Transport Tactical (H-34))
(Army Helicopter Transport Tactical (H-19))

Course Number: 1-B-F12.
Location: Aviation School, Ft. Rucker, AL.
Length: 8 weeks (300-307 hours).
Exhibit Dates: 1/59-12/68.
Objectives: To train aviators to operate H-21 or H-34 light transport helicopters.
Instruction: Lectures and practical exercises in the operation of H-21 or H-34 helicopters. Course includes maintenance of light transport craft, physical fitness, and transition training in transport helicopters.
Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter flight training (12/68).
Related Occupation Codes: 100B; 100C.

AR-1606-0120

ARMY AVIATION PRIMARY AND TACTICAL FLIGHT TRAINING

Course Number: 1-O-ZZ.
Location: Aviation School, Ft. Rucker, AL.
Length: 24 weeks (840 hours).
Exhibit Dates: 1/57–12/68.
Objectives: To train commissioned officers to employ fixed-wing observation aircraft in support of military operations.
Instruction: Lectures and practical exercises in the employment of fixed-wing observation aircraft in support of military operations. Course includes tactical subjects, flight training (both primary and advanced), instrument flight training, and related aeronautical subjects.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology (7/74); in the upper-division baccalaureate category, 3 semester hours in weather interpretation and elementary navigation (12/68).

AR-1606-0121

AVIATION WARRANT OFFICER ADVANCED
(Aviation Warrant Officer Intermediate)

Course Number: 2-1-C32; 2-1-C30.
Location: Aviation School, Ft. Rucker, AL.
Length: *Version 1:* 22 weeks (644–667 hours). *Version 2:* 23 weeks (684–726 hours).
Exhibit Dates: *Version 1:* 5/72–Present. *Version 2:* 7/69–4/72.
Objectives: To qualify rated aviators or aviation repair technicians for aviation unit staff duties.
Instruction: *All Versions:* Lectures and practical exercises in principles of management, resources management, personnel management, supply management, effective writing and speaking, defensive and offensive operations, combat support, command and staff procedures, aviation medicine and life support, and physical conditioning. *Version 1:* Instruction includes aircraft accident investigation.
Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in principles of management, 3 in aviation administration (safety) (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in principles of management, 2 in aviation administration (safety) (7/74); in the upper-division baccalaureate category, 2 semester hours in principles of management (7/74). *Version 2:* In the vocational certificate category, 2 semester hours in business organization and management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management, 2 in business organization and management, and credit in aeronautics on the basis of institutional evaluation (12/68).
Related Occupation Codes: 100B; 100C; 100D; 100E.

AR-1606-0122

OV-1 AVIATOR QUALIFICATION
(OV-1 (Mohawk) Aviator Transition)
(AO-1 (Mohawk) Aviator Transition)

Course Number: 2B-F2; 2B-101D; 2B-061C-D; 2B-F2.
Location: Aviation Center, Ft. Rucker, AL.
Length: 6–8 weeks (222–301 hours).
Exhibit Dates: 2/64–Present.
Objectives: To qualify rated pilots with transition training on OV-1 (Mohawk) type aircraft.
Instruction: Lectures and practical exercises in transition flight training on the OV-1 aircraft, including preflight inspection, ground procedures, night operations, instrument flying, regulations, flight planning; and maintenance procedures.
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in advanced multiengine turbine powered aircraft flight training (10/78).
Related Occupation Codes: 101B; 100Q; 100R.

AR-1606-0123

1. ROTARY WING INSTRUMENT
(Helicopter Instrument Flying)
2. HELICOPTER INSTRUMENT FLYING

Course Number: *All Versions:* 2C-F2. *Version 2:* 1-B-F18.
Location: Aviation Center, Ft. Rucker, AL.
Length: *Version 1:* 6–8 weeks (192–261 hours). *Version 2:* 10–11 weeks (372–440 hours).
Exhibit Dates: *Version 1:* 3/68–Present. *Version 2:* 2/58–2/68.
Objectives: To train helicopter pilots as instrument pilots.
Instruction: Course is self-paced beginning 1964. Lectures and practical exercises in helicopter instrument flying, including flight instruments, radio navigation, airport surveillance radar, navigational computer, approach and enroute procedures, instrument landing system, hazards to flight, weather maps, instrument preflight, and synthetic flight trainer planning.
Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in instrument ground school and 2 in instrument flight training (10/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in elementary meteorology and navigation (12/68).
Related Occupation Codes: 100B; 100C; 100D; 100E.

AR-1606-0124

ROTARY WING INSTRUMENT FLIGHT EXAMINER
(Helicopter Instrument Flight Examiner)

Course Number: 2C-F27; 2C-1985; 1-B-1985.
Location: Aviation Center, Ft. Rucker, AL.
Length: 4–6 weeks (140–234 hours).
Exhibit Dates: 4/58–Present.
Objectives: To train selected and qualified pilots as instrument flight instructors and instrument flight examiners in rotorcraft.
Instruction: Lectures and practical exercises in helicopter instrument flight training, flight instructor and examiner techniques, flight evaluation, regulations, air traffic control, radio navigation, and weather flight planning, and methods of instruction.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction and 3 instrument flight instructor (10/78).

AR-1606-0125

FIXED WING INSTRUMENT FLIGHT EXAMINER

Course Number: 2B-1984; 2B-101C-C; 2B-061C; 1-B-1984.
Location: Aviation School, Ft. Rucker, AL.
Length: 4–7 weeks (154–261 hours).
Exhibit Dates: 4/59–Present.
Objectives: To train aviators to be fixed-wing instrument flight examiners.
Instruction: Lectures and practical exercises in instrument instructor flight techniques, air traffic control, and T-42 aircraft maintenance.
Credit Recommendation: In the vocational certificate category, 4 semester hours in fixed-wing instrument flight (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in fixed-wing instrument flight (7/74).
Related Occupation Codes: 100Q; 100R.

AR-1606-0126

1. OH-6 INSTRUCTOR PILOT
(OH-6 Transition/Gunnery Instructor Pilot (IP) Qualification)
2. OH-6 TRANSITION/GUNNERY IP QUALIFICATION
(LOH Transition/Gunnery IP Qualification)

Course Number: 2C-F13.
Location: Aviation Center, Ft. Rucker, AL.
Length: *Version 1:* 4–6 weeks (127–197 hours). *Version 2:* 6–7 weeks (197–229 hours).
Exhibit Dates: *Version 1:* 3/68–2/77. *Version 2:* 9/66–2/68.
Objectives: To provide commissioned and warrant officer aviators with OH-6 transition training, and to qualify OH-6 instructor pilots to conduct transition training in gunnery systems associated with OH-6 helicopters, including flight maneuvers and day and night range firing.
Instruction: *All Versions:* Lectures and practical exercises in OH-6 transition training and instructor training in gunnery systems associated with OH-6 helicopters, including flight training and OH-6 maintenance subjects. *Version 1:* Topics include LOH gunnery instructor pilot qualification. *Version 2:* Topics include OH-6 gunnery instructor pilot qualification.
Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78). *Version 2:* In the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).
Related Occupation Codes: 100C.

AR-1606-0127

1. ROTARY WING QUALIFICATION (ARMY AND AIR FORCE)
(Officer/Warrant Officer Rotary Wing Qualification (Active Army))
2. OFFICER/WARRANT OFFICER ROTARY WING QUALIFICATION (ACTIVE ARMY)

Course Number: *All Versions:* 2C-1981-D; 2C-062B-D; 2C-15A-AF. *Version 1:* 2C-15AD-X; 2C-15AD-AF; 2C-100B-D.
Location: Aviation Center, Ft. Rucker, AL.
Length: *Version 1:* 11 ND 13 weeks (330 ND 440 hours). *Version 2:* 13 weeks (438–476 hours).
Exhibit Dates: *Version 1:* 10/68–Present. *Version 2:* 11/66–9/68.
Objectives: To train commissioned and warrant officer aviators in the primary flying techniques of rotary wing aircraft.
Instruction: Lectures and practical exercises in officer/warrant officer rotary wing qualification, including flight training, basic

flight subjects, maintenance subjects, transition flight training, tactical flight training, tactical subjects, and instrument training.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter pilot rating (10/78). *Version 2:* In the vocational certificate category, 6 semester hours in helicopter pilot rating (7/74); in the lower-division baccalaureate/associate degree category, credit in helicopter flight training on the basis of institutional evaluation (12/68).

Related Occupation Codes: 100B; 100C; 100D; 100L, 100Q; 100R.

AR-1606-0128

1. Image Interpreter, Skill Development Base
2. Image Interpreter Noncommissioned Officer (NCO) Candidate

Course Number: *Version 1:* 242-96D20-I. *Version 2:* 242-96D40-I.

Location: Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 16 weeks (606 hours). *Version 2:* 12 weeks (526 hours).

Exhibit Dates: *Version 1:* 4/69–Present. *Version 2:* 1/68–3/69.

Objectives: To train image interpreters to perform as supervisors/technicians in image interpretation.

Instruction: *All Versions:* Lectures and practical exercises in image interpretation, including map reading, counterintelligence, order of battle, aerial surveillance operations and organization, high-altitude image interpretation, mathematics, oblique metrics, terrain analysis techniques, and leadership development. *Version 1:* Includes nuclear warfare, intelligence collection, and aerial surveillance tactics.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in imagery interpretation (12/68). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in imagery interpretation (12/68).

Related Occupation Codes: 96D.

AR-1606-0129

Military Intelligence (MI-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 2-MI-C40.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 11 weeks (351–372 hours).

Exhibit Dates: 5/73–Present.

Objectives: To provide enlisted personnel with a general knowledge and understanding of the function of a military intelligence operator.

Instruction: Lectures and practical exercises in command and staff procedures, interrogation techniques, oral and written expression, military leadership, Army management and resources, automatic data processing, electronic warfare, signal intelligence, counterintelligence, military justice, map and aerial photograph reading, and field engineering.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-1606-0130

Signal Security Officer
(SIGSEC Officer)

Course Number: 3-30-37C.

Location: Intelligence School, Ft. Devens, MA.

Length: 6–10 weeks (239–280 hours).

Exhibit Dates: 8/76–Present.

Objectives: To prepare company-grade officers for assignment to signal security units and activities.

Instruction: Course contains a review of basic electrical circuits, receivers, transmitters, and electron devices. Specific topics include tactical doctrine, combat communications, and signal security.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (9/77).

AR-1606-0132

Intelligence Analyst Basic Level

Course Number: 243-96B30.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 3 weeks (100 hours).

Exhibit Dates: 7/75–Present.

Objectives: To prepare personnel in the operations of an intelligence unit.

Instruction: Course teaches students to determine needs, supervise the collection, analyze and evaluate intelligence information. They will prepare and present reports in written and oral form, and learn to supervise personnel.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in management planning, administration, and personnel supervision (6/79).

Related Occupation Codes: 96B.

AR-1606-0133

UH-60 Aviator Qualification
(UH-60 (Blackhawk) Aviator Qualification)

Course Number: Not available.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4 weeks (159 hours).

Exhibit Dates: 3/78–Present.

Objectives: To qualify rated pilots with transition training on UH-60 (Blackhawk) type helicopters.

Instruction: Lectures and practical exercises in transition flight training on the UH-60 helicopter, including preflight inspection, ground procedures, night operations, instrument flying, regulations, and flight planning and maintenance procedures.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in advanced helicopter flight training (10/78).

Related Occupation Codes: 100B.

AR-1606-0134

Intelligence Analyst Entry Level

Course Number: 243-96B10.

Location: Intelligence School, Ft. Huachuca AZ.

Length: 8 weeks (250 hours).

Exhibit Dates: 7/75–Present.

Objectives: To prepare enlisted personnel in intelligence operation by providing them with basic necessary skills and knowledge of military intelligence training.

Instruction: Course includes military organizations, map reading, terrain analysis, collection and interpretation of information, and the preparation of reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in introduction to the elements of geography, 3 in introduction to administration and management (6/79)

Related Occupation Codes: 96B.

AR-1606-0135

T-42 Instructor Pilot

Course Number: Not available.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4 (self-paced) weeks (126 hours).

Exhibit Dates: 4/75–Present.

Objectives: To train selected and qualified pilots as instructors in the multi-engine airplane (T-42).

Instruction: Flight experience as instructor pilot and related academic subject matter including principles and methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (10/78).

Related Occupation Codes: 101C.

AR-1606-0136

Military Intelligence Warrant Officer Advanced

Course Number: 3-30-C32.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 15–16 weeks (464–513 hours).

Exhibit Dates: 4/76–Present.

Objectives: To prepare intelligence warrant officers for various levels of command and broaden their understanding of intelligence disciplines.

Instruction: Course includes lectures, seminars and practical exercises in effective communications, operations research, systems analysis and internal defense and development.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in communication skills, 3 in area studies (political science), 3 in management techniques (6/79)

AR-1606-0137

1. Tactical Intelligence Officer
2. Intelligence Officer Basic Tactical

Course Number: *Version 1:* 3-30-0B-35A. *Version 2:* 3-30-C20-35A.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 9 weeks (344 hours). *Version 2:* 18 weeks (554 hours).

Exhibit Dates: *Version 1:* 5/79–Present. *Version 2:* 5/78–4/79.

Objectives: To provide newly commissioned officers with knowledge of a tactical intelligence nature.

Instruction: *Version 1:* Lectures, exercises, and seminars in intelligence usage, world threats, world forces, and tactical concepts, including surveillance. *Version 2:* Lectures and practical exercises in world threats, intelligence usage, tactical concepts, intelligence, reconnaisance, and surveillance; analysis of area operations and introduction to threat forces organizations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in advanced political science (world area threats), 3 in information management (6/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of administration/management (6/79); In the upper-division baccalaureate category, 3 semester hours in advanced political science (world threat areas) 3 in information management (6/79).

AR-1606-0138

Night Hawk (Unaided)/Night Vision Goggle (NVG) M01

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4 weeks (118–119 hours).

Exhibit Dates: 3/78–Present.

Objectives: To qualify helicopter instructer pilots as night hawk/night vision goggle instructor pilots.

Instruction: Course is devoted primarily to flight training to include night hawk flight maneuvers.

Credit Recommendation: Pending evaluation.

AR-1606-0139

Night Vision Goggle (NVG) AN/PVS5

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 2–3 weeks (77–78 hours).

Exhibit Dates: 4/77–Present.

Objectives: To train helicopter instructor pilots as night vision goggle instructor pilots.

Instruction: Course includes introduction to AN/PVS5, flight training subjects and aviation medicine and life support.

Credit Recommendation: Pending evaluation.

AR-1606-0140

Intelligence Officer Basic
CI/HUMINT
(Counterintelligence
Officer/Technician/Agent)

Course Number: *Version 1:* 3-30-0B-36A. *Version 2:* 3-30-C20-36A. *Version 3:* 3C-9666; 244-97B40; 3C-971A.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 16 weeks (541 hours). *Version 2:* 25 weeks (862 hours). *Version 3:* 16 weeks (527 hours).

Exhibit Dates: *Version 1:* 5/79–Present. *Version 2:* 7/77–4/79. *Version 3:* 5/75–6/77.

Objectives: To provide personnel with knowledge of security investigations and security practices needed to protect the national interests.

Instruction: Lectures and discussions including mediated instruction and field exercises in physical security, human relations, investigative techniques, report writing, and legal principles.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing, 2 in introduction to maps/air photos, 3 in legal principles, 6 in industrial security techniques, 3 in loss prevention, 3 in principles of investigation, 3 in human/interpersonal relations (6/79); in the upper-division baccalaureate category, 3 semester hours in political science (major foreign powers/world tension areas), 3–6 practicum/field training in physical security (6/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing, 2 in introduction to maps/air photos, 3 in legal principles, 6 in industrial security techniques, 3 in loss prevention, 3 in principles of investigation, 3 in human/interpersonal relations, 6 in principles of administration/management (6/79); in the upper-division baccalaureate category, 3 in political science (major foreign powers/world tension areas) 3–6 in practicum/field training in physical security (6/79). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing, 2 in introduction to maps/air photos, 3 in legal principles, 6 in industrial security techniques, 3 in loss prevention, 3 in principles of investigation, 3 in human/interpersonal relations (6/79); in the upper-division baccalaureate category, 3 in political science (major foreign powers/world tension areas), 3–6 in practicum/field training in physical security (6/79).

Related Occupation Codes: 97B.

AR-1606-0141

Intelligence Agent
(Counterintelligence Agent)

Course Number: 244-97B20.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 13 weeks (390–520 hours). *Version 2:* 16 weeks (480–640 hours).

Exhibit Dates: *Version 1:* 9/79–Present. *Version 2:* 10/78–8/79.

Objectives: To provide selected enlisted personnel with counterintelligence skills needed to protect the Army from hostile intelligence threats.

Instruction: Lectures, seminars, and practical exercises in physical security, human relations, investigative techniques, report writing, and legal practices.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 6 in industrial security techniques, 3 in loss prevention, 3 in legal principles, 3 in investigative principles (6/79); in the upper-division baccalaureate category, 3 semester hours in political science (major foreign powers), 3–6 in physical security practicum (6/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 3 in industrial security techniques, 3 in loss prevention, 3 in legal principles, 3 in investigative principles (6/79); in the upper-division baccalaureate category, 3 semester hours in political science (major foreign powers), 3–6 in physical security practicum (6/79).

Related Occupation Codes: 97B.

AR-1606-0142

1. Intelligence Officer Tactical Surveillance
2. Intelligence Officer Basic Tactical Surveillance

Course Number: *Version 1:* 3-30-0B-35C. *Version 2:* 3-30-35C.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 18 weeks (589 hours).

Exhibit Dates: *Version 1:* 9/79–Present. *Version 2:* 4/79–8/79.

Objectives: To provide selected officers with a working knowledge of tactical surveillance and its use by intelligence agencies.

Instruction: Lectures and practical application of photo interpretation, photogrammetry, tactical surveillance, leadership, and management of technical services.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in college mathematics, 3 in introduction to maps/air photos (6/79); in the upper-division baccalaureate category, 3 semester hours in photogrammetry, 3 in leadership/management, 3 in image interpretation/aerial photo (6/79).

AR-1701-0001

Heating and Ventilating

Course Number: 5-E-49.

Location: Engineer School, Ft. Belvoir, VA.

Length: 8 weeks (284 hours).

Exhibit Dates: 10/56–12/68.

Objectives: To train enlisted personnel to install, maintain, and repair heating and ventilating units and associated control devices.

Instruction: Lectures and practical exercises in the installation and maintenance of heating and ventilation systems. Course includes heat transfer, insulation, combustion principles, automatic controls, pipe fittings, gas burners, oil burners, combustion chambers, oil pumps, duct systems, furnace installation, steam and hot water heating, and natural and mechanical ventilation.

Credit Recommendation: In the vocational certificate category, 6 semester hours in combustion (oil, gas, and coal furnaces), and additional credit on the basis of institutional evaluation (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in combustion (oil, gas, and coal furnaces), and additional credit on the basis of institutional evaluation (6/74).

AR-1701-0002

Utilities Equipment Repairer

Course Number: 662-52C20.

Location: Engineer School, Ft. Belvoir, VA.

Length: 11 weeks (323 hours).

Exhibit Dates: 4/79–Present.

Objectives: To train the individual to diagnose, maintain and repair gas-turbine engines, refrigeration, high PSI air-compressors, air-conditioning and heater equipment.

Instruction: Conferences and practical exercises to teach the individual to diagnose, maintain, and repair gas-turbine engines, refrigeration equipment, high PSI air-compressors, air-conditioning and heater equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in refrigeration, 2 in mechanical power technology, 1 in air-conditioning (9/79); in the lower-division baccalaureate/associate degree category, 1 semester hour in refrigeration, 2 in mechanical power technology, 1 in air-conditioning (9/79).

AR-1702-0001

Impregnation Equipment Operation

Course Number: 3-E-8.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 8 weeks (352 hours).

Exhibit Dates: 4/54–12/68.

Objectives: To train enlisted personnel to operate, install, inspect, and maintain impregnation equipment.

Instruction: Lectures and practical exercises in the operation, installation, inspection, and maintenance of impregnation equipment, including chemical munitions, special masks and clothing, map reading, supply operation, biological and chemical warfare, detection and identification of chemical agents, and chemical detection and processing plants.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/74).

AR-1702-0002

QUARTERMASTER LIGHT EQUIPMENT REPAIR

Course Number: 690-63J10; 690-63J20; 10-R-466.1.

Location: Ordnance School, Aberdeen Proving Ground, MD; Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (237–290 hours).

Exhibit Dates: 10/59–Present.

Objectives: To train enlisted personnel to install, adjust, and repair light quartermaster machinery and equipment.

Instruction: Lectures and practical exercises in installation, maintenance, and repair of wood materials, hardware and glues, internal combustion engines, burner equipment and metal items, mobile shoe repair equipment, and clothing and textile sewing machines. Emphasis is on applied troubleshooting and repair.

Credit Recommendation: In the vocational certificate category, 7 semester hours in industrial arts technology (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in industrial arts technology (5/74).

Related Occupation Codes: 63J.

AR-1702-0003

UTILITIES EQUIPMENT REPAIRER

Course Number: 662-52C10.

Location: Engineer School, Ft. Belvoir, VA.

Length: 11 weeks (393 hours).

Exhibit Dates: 2/79–Present.

Objectives: To train enlisted personnel to operate and maintain gas turbine engines and multi-output package equipment.

Instruction: Conferences and practical exercises in diagnostic procedures, maintenance and repair of gas turbine engines, refrigeration, air-conditioning and heater equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to electricity, 2 in air-conditioning and refrigeration (9/79).

Related Occupation Codes: 52C.

AR-1703-0001

1. TRACK VEHICLE MECHANIC
2. TRACK VEHICLE MECHANIC
3. ARMOR TRACK VEHICLE MECHANIC

Course Number: *All Versions:* 7-R-632.1; 7-R-632.2; 6-R-632.1; 6-R-632.2; 17-R-632.1; 17-R-632.2. *Version 1:* 611-63C10; 611-63C20. *Version 2:* 611-63C10; 611-63C20; 7-R-632;1 7-R-632;2 6-R-632;1 6-R-632.2. *Version 3:* 7-R-632;1 7-R-632;2 6-R-632;1 6-R-632;2 17-R-632;1 17-R-632.2.

Location: *All Versions:* Armor School, Ft. Knox, KY. *Version 1:* Ordnance and Chemical School, Aberdeen Proving Ground, MD. *Version 2:* Ordnance School, Aberdeen Proving Ground, MD; Artillery and Missile School, Ft. Sill, OK; Infantry School, Ft. Benning, GA. *Version 3:* Armor School, Ft. Knox, KY.

Length: *Version 1:* 13 weeks (436 hours). *Version 2:* 7–12 weeks (264–404 hours). *Version 3:* 15 weeks (591–607 hours).

Exhibit Dates: *Version 1:* 11/76–Present. *Version 2:* 7/64–10/76. *Version 3:* 9/56–6/64.

Objectives: To provide enlisted personnel with the skills and knowledge required to perform organizational maintenance on wheeled and tracked tank-automotive vehicles.

Instruction: *All Versions:* Lectures and practical exercises in the maintenance and recovery of track vehicles or wheeled and tracked vehicles, including vehicle operations and engine and electrical subjects. *Version 1:* Includes gasoline engine subjects. *Version 2:* Includes powertrains, hull and suspension systems, hydraulic systems, and troubleshooting procedures. *Version 3:* Includes wheeled-vehicle engines, power transmission systems, chassis units, recovery operations, management, medium-gun tank and armored personnel carrier maintenance.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 10 semester hours in heavy equipment maintenance (1/78). *Version 2:* In the vocational certificate category, 8 semester hours in heavy equipment maintenance (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in heavy equipment maintenance (6/75). *Version 3:* In the vocational certificate category, 12 semester hours in heavy equipment, 4 in automotive repair (4/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in heavy equipment, 3 in automotive repair (4/74).

Related Occupation Codes: 63C.

AR-1703-0002

ARTILLERY TRACK VEHICLE MAINTENANCE

Course Number: *Version 1:* 6-R-632.1. *Version 2:* 6-R-632.1. *Version 3:* 6-E-21.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 11–12 weeks (406–437 hours). *Version 2:* 14 weeks (589–604 hours). *Version 3:* 10 weeks (421 hours).

Exhibit Dates: *Version 1:* 1/61–12/68. *Version 2:* 6/57–12/60. *Version 3:* 7/56–5/57.

Objectives: To train enlisted personnel to troubleshoot and repair tracked-vehicle systems.

Instruction: Lectures and practical exercises in automotive engine, power train, carburetion, and ignition fundamentals; troubleshooting, diagnosis, and repair of vehicle components; motor pool tools and shop equipment; wheeled and tracked vehicles electrical systems; and maintenance management procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in internal-combustion engines, 2 in automobile electric systems, 2 in power trains, 2 in automobile mechanics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in internal-combustion engines, 2 in automobile electrical systems, 1 in power trains, 2 in automobile mechanics (4/74). *Version 2:* In the vocational certificate category, 5 semester hours in internal-combustion engines, 2 in automobile electrical systems, 1 in power trains, 2 in automobile mechanics (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in internal-combustion engines, 1 in automobile electrical systems, 1 in power trains, 2 in automobile mechanics (4/74). *Version 3:* In the vocational certificate category, 1 semester hour in internal-combustion engines, 3 in automobile electrical systems, 1 in power trains, 2 in automobile mechanics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in internal-combustion engines, 2 in automobile electrical systems, 1 in power trains, 2 in automobile mechanics (4/74).

AR-1703-0003

TIRE REPAIR

Course Number: *Version 1:* 9-R-543;1 9-E-4. *Version 2:* Not available.

Location: *Version 1:* Ordnance School, Aberdeen Proving Ground, MD. *Version 2:* Ordnance Automotive School, Atlanta, GA.

Length: *Version 1:* 7 weeks (245–266 hours). *Version 2:* 8 weeks (304 hours).

Exhibit Dates: *Version 1:* 4/56–12/68. *Version 2:* 7/55–3/56.

Objectives: To train enlisted personnel to repair automotive tire inner tubes, make sectional repairs, and recap automobile, truck, and earth-moving equipment.

Instruction: Lectures and practical exercises in tires and tubes fundamentals, tube repair, spot and section repair preparation and build-up, tire recapping, specialized repair equipment operation, open-steam-chamber vulcanizing, and earthmover equipment operation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in tire repair, recapping, and retreading (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in tire repair, recapping, and retreading (4/74). *Version 2:* In the vocational certificate category, 7 semester hours in tire repair, recapping, and retreading (4/74); in the lower-division baccalaureate/associate degree category, 7 semester hours in tire repair, recapping, and retreading (4/74).

AR-1703-0004

RECOVERY AND EVACUATION

Course Number: *Version 1:* 610-63F20. *Version 2:* 610-63F20; 611-63F20; 9-R-633;1 9-E-80. *Version 1:* 63F10.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 9–10 weeks (278–324 hours). *Version 2:* 7–11 weeks (209–385 hours).

Exhibit Dates: *Version 1:* 11/74–Present. *Version 2:* 6/56–10/74.

Objectives: To train enlisted personnel to perform recovery and evacuation operations for abandoned, damaged, disabled, or mired vehicles.

Instruction: *All Versions:* Lectures and practical exercises in the recovery and evacuation of abandoned, damaged, disabled, or mired vehicles, including oxyacetylene cutting, engines, power trains, steering, suspension components, brake and fuel systems, operation of various winches, transmission assemblies, gears and shafts, electrical systems, communication and map reading, and engine cooling systems. *Version 1:* Topics include operation of the 10 ton wrecker truck.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours as an elective in automotive technology (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in automotive technology (6/75). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in automotive technology (4/74).

Related Occupation Codes: 63F.

AR-1703-0005

JUNIOR OFFICERS MAINTENANCE (Motor Officer)

Course Number: 8C-77D; 8C-0600.

Location: Armor School, Ft. Knox, KY.

Length: 8–9 weeks (277–289 hours).
Exhibit Dates: 4/71–Present.
Objectives: To train commissioned officers to supervise the maintenance of wheeled and tracked vehicles and associated armament and communications equipment.
Instruction: Lectures and practical exercises in the maintenance management of wheeled and tracked vehicles and associated armament and communications equipment, including records, gasoline engines, fuel systems, electrical systems, diesel engines, engine troubleshooting, power train components, tracked vehicles, auxiliary equipment, and vehicle recovery operations.
Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in automotive technology (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in automotive technology (4/74).
Related Occupation Codes: 77D.

AR-1703-0006

ENGINEER EQUIPMENT REPAIRMAN— NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: 612-62B40-EC.
Location: Engineer School, Ft. Belvoir, VA.
Length: 15 weeks (667 hours).
Exhibit Dates: 5/71–Present.
Objectives: To train engineer equipment repairmen to supervise the repair of various types of engineering equipment.
Instruction: Lectures and practical exercises in the maintenance supervision of various types of engineering equipment, including instruction in basic mathematics, speech, map reading, personnel management, power generation, hydraulics, electrical systems, fuel systems, diesel engines, cylinder block assemblies, cylinder heads, ignition systems, gasoline engines, clutches, torque converters, transmissions, final drives, suspension systems, steering and lubrication systems, cooling systems, and electrical fundamentals.
Credit Recommendation: In the vocational certificate category, 5 semester hours as an elective in automotive technology (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours as an elective in automotive technology (4/74).
Related Occupation Codes: 62B.

AR-1703-0007

INFANTRY AUTOMOTIVE SUPERVISION

Course Number: 7-E-1.
Location: Infantry School, Ft. Benning, GA.
Length: 10 weeks (372 hours).
Exhibit Dates: 11/54–12/68.
Objectives: To train enlisted personnel to supervise motor pool operations.
Instruction: Lectures and practical exercises in tactical driver-training methods, internal combustion engine operation, chassis systems, track vehicle operation and maintenance, preventive maintenance procedures, field operations, map and aerial photograph reading, and logistics.
Credit Recommendation: In the vocational certificate category, 3 semester hours in automotive engines, 2 in automotive chassis systems (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive engines, 2 in automotive chassis systems (4/74).

AR-1703-0008

AIR BRAKE REPAIR

Course Number: 55-R-655.1; 55-E-35.
Location: Transportation School, Ft. Eustis, VA.
Length: 10 weeks (350 hours).
Exhibit Dates: 8/55–12/68.
Objectives: To train enlisted personnel to dismantle, inspect, repair, and maintain railroad air brake equipment and component parts on steam and diesel-electric locomotives, railway cars, and auxiliary railway mechanical equipment.
Instruction: Lectures and practical exercises in the inspection, repair, and maintenance of railroad air brake equipment and component parts on steam and diesel-electric locomotives, railway cars, and auxiliary railway mechanical equipment, including operation of various valves, gauges, governors and braking devices used on steam and diesel locomotives.
Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in mechanical technology (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical technology (4/74).

AR-1703-0009

SPECIAL AMPHIBIAN TRANSITION

Course Number: None.
Location: Transportation School, Ft. Eustis, VA.
Length: 5 weeks (182 hours).
Exhibit Dates: 6/62–12/64.
Objectives: To train enlisted personnel to operate and maintain amphibious lighters.
Instruction: Lectures and practical exercises in the operation and maintenance of amphibious lighters, including basic internal combustion engine maintenance, test equipment, electrical circuits, fuel system, operating controls and troubleshooting, transmission, technical inspections, and hydraulic system components.
Credit Recommendation: In the vocational certificate category, 1 semester hour in introduction to internal combustion engines (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to internal combustion engines (4/74).

AR-1703-0010

COOPERATIVE FUELS RESEARCH (CFR) TEST ENGINE

Course Number: 491-91C30; 491-F1.
Location: Quartermaster School, Ft. Lee, VA.
Length: 8 weeks (280 hours).
Exhibit Dates: 6/67–Present.
Objectives: To train petroleum laboratory specialists to install, operate, inspect, and maintain cooperative fuels research (CFR) test engines.
Instruction: Lectures and practical exercises in the inspection, operation, and maintenance of CFR test engines, including principles of internal combustion engines and combustion knock, installation of CFR test engines, maintenance and overhaul procedures for CFR test engines, maintenance of CFR electrical apparatus, determination of humidity, starting and stopping of CFR test units, motor and research methods for rating fuels, and aviation method for rating aviation fuels.
Credit Recommendation: In the vocational certificate category, 6 semester hours in automotive and mechanical technology (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive and mechanical technology (6/74).
Related Occupation Codes: 96C.

AR-1703-0011

AUTOMOTIVE REPAIR

Course Number: 610-63H10; 610-63H20; 610-635.10; 9-R-635.1; 9-E-81.
Location: Ordnance School, Aberdeen Proving Ground, MD.
Length: *Version 1:* 13 weeks (415 hours). *Version 2:* 14–18 weeks (486–635 hours).
Exhibit Dates: *Version 1:* 8/76–Present. *Version 2:* 3/56–7/76.
Objectives: To train enlisted personnel to maintain, inspect, repair and overhaul wheeled vehicles and their systems.
Instruction: *All Versions:* Lectures and practical exercises in vehicle engine familiarization, operation, construction, disassembly, assembly, inspection, and troubleshooting; selective gear and hydraulic transmissions, including dry disk clutch, fluid coupling, and torque converter; power train and auxiliary components; recovery operations; and construction, operation, and maintenance of materials handling equipment. *Version 1:* Includes introduction to shop management and preventive maintenance scheduling.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 12 semester hours in heavy equipment service of which 6 semester hours is specifically in automotive service (1/78). *Version 2:* In the vocational certificate category, 6 semester hours in automotive repair, and 15 in heavy equipment repair (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive repair, and 10 in heavy equipment repair (5/74).
Related Occupation Codes: 63H.

AR-1703-0012

METALWORKER
(Metal Body Repair)

Course Number: *Version 1:* 700-44B10. *Version 2:* 704-44B20; 225ABA47331 (USAF); 704-441.1. *Version 3:* 9-R-441.1. *Version 4:* 9-R-441;1 9-E-3.
Location: Ordnance School, Aberdeen Proving Ground, MD.
Length: *Version 1:* 8–14 weeks (266–442 hours). *Version 2:* 8–11 weeks (288–340 hours). *Version 3:* 10 weeks (336 hours). *Version 4:* 6 weeks (210–228 hours).
Exhibit Dates: *Version 1:* 1/76–Present. *Version 2:* 2/66–12/75. *Version 3:* 4/58–1/66. *Version 4:* 6/56–3/58.
Objectives: To train Army, Air Force and Marine Corps personnel to repair, repaint, and install metal body components, radiators, fuel tanks, and glasswork, and to modify other related items.
Instruction: *All Versions:* Lectures and practical exercises in the repair, repainting, and installation of metal body components, radiators, fuel tanks, and glasswork, and in the modification of other related items. Instruction includes oxyacetylene welding, inert gas welding, utilization of metal body repair tools and equipment, after-operations checks, and trim, hardware, and glasswork. *Version 1:* Army personnel study arc welding, inert gas welding and electric arc welding. *Version 3:* Includes major body repair.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in auto body repair, 1 in auto painting for all services and, for Army personnel only, 6 semes-

ter hours in welding (1/78) *Version 2:* In the vocational certificate category, 9 semester hours in automotive body repair or metal body repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in automotive body repair or metal body repair (6/75). *Version 3:* In the vocational certificate category, 10 semester hours in automotive body repair or metal body repair (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in automotive body repair or metal body repair (5/74). *Version 4:* In the vocational certificate category, 7 semester hours in automotive body repair or metal body repair (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive body repair or metal body repair (5/74).

Related Occupation Codes: 44B.

AR-1703-0013

AUTOMOTIVE REBUILD

Course Number: 9-E-83.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 12 weeks (456 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train automotive repairmen to rebuild engines, power train units, and chassis components of wheel and track vehicles.

Instruction: Lectures and practical exercises in the rebuilding of engines, power train units, and chassis components of wheeled and tracked vehicles, including removal and inspection of engine accessories, assembly and disassembly of water pump, air compressor, intake and exhaust manifolds, valve operating mechanism, cylinder head and valves, oil pan and cover, oil pump, connecting rods and pistons, flywheel, crankshaft, and camshaft; boring, grinding, and aligning procedures; and installation and assembly of engine and components.

Credit Recommendation: In the vocational certificate category, 15 semester hours in automotive or heavy equipment (5/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in automotive or heavy equipment (5/74).

AR-1703-0014

AUTOMOTIVE MAINTENANCE AND REPAIR

Course Number: 9-B-4805.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 7–8 weeks (245–280 hours).

Exhibit Dates: 11/56–12/68.

Objectives: To train officers to direct and supervise personnel in the repair of automotive vehicles.

Instruction: Lectures and practical exercises in automotive maintenance management and automotive engines, power trains, chassis components, and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in automotive maintenance (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive maintenance (7/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

Related Occupation Codes: 630A; 631A; 632A.

AR-1703-0015

INFANTRY MOTOR TRANSPORTATION

Course Number: 7-O-8.

Location: Infantry School, Ft. Benning, GA.

Length: 10 weeks (417 hours).

Exhibit Dates: 1/55–12/68.

Objectives: To train officers to maintain motor transport equipment.

Instruction: Lectures and practical exercises in motor transport maintenance, including tactical driver training methods, engine, chassis, full-track vehicle familiarization, preventive maintenance, and operating procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in automotive programs (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in automotive programs (7/74).

AR-1703-0016

AUTOMOTIVE REPAIR

Course Number: 610-63H10.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: Self-paced 10 weeks (299 hours).

Exhibit Dates: 7/76–Present.

Objectives: To train enlisted personnel in the construction, operation, and servicing of automotive equipment by troubleshooting, replacing components, and minor repair of wheeled and tracked vehicles.

Instruction: Lectures and practical exercises in vehicle engine familiarization, operation, construction, inspection, replacement, and troubleshooting; selective gear and hydraulic transmissions, including dry disk clutch, fluid coupling, and torque converter; power train and auxiliary components; recovery operations; and construction, operation, and maintenance of materials-handling equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in heavy equipment repair of which 5 semester hours is specifically in automative repair (1/78).

AR-1703-0017

ARMOR VEHICLE MAINTENANCE SUPERVISION

(Armor Automotive Supervision)

Course Number: 17-R-632.6; 17-R-632.7; 17-E-7.

Location: Armor School, Ft. Knox, KY.

Length: 8 weeks (286–307 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train enlisted personnel in the supervision of organizational maintenance and motor activities in armor units.

Instruction: Lectures and practical exercises in the supervision of organizational maintenance and motor activities in armor units, including engine electricity, basic engines, wheeled-vehicle engines, tracked-vehicle engines, wheeled-vehicle power transmission systems and chassis units, tracked-vehicle power transmission systems and chassis units, automotive general, maintenance management, driving and driving principles, and preventive maintenance services.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive shop management (7/74); in the upper-division baccalaureate category, credit in automotive shop management on the basis of institutional evaluation (12/68).

AR-1703-0018

WARRANT OFFICER AUTOMOTIVE REPAIR

Course Number: 4L-631A; 4L-632A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 19 weeks (646 hours).

Exhibit Dates: 3/72–Present.

Objectives: To train enlisted personnel to perform as warrant officers and to repair and maintain automotive vehicles.

Instruction: Lectures and practical exercises in the repair and maintenance of automotive vehicles. Course includes military subjects, military management, automotive electricity and electronics, power plant maintenance and support systems, chassis and drive trains, and heavy equipment familiarization.

Credit Recommendation: In the vocational certificate category, 3 semester hours in automotive technology, 3 in introduction to heavy equipment technology (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive technology, 3 in introduction to heavy equipment technology (7/74); in the upper-division baccalaureate category, 3 semester hours in introduction to automotive technology, 3 in introduction to heavy equipment technology (7/74).

Related Occupation Codes: 630A; 631A; 632A.

AR-1703-0019

FUEL AND ELECTRICAL SYSTEMS REPAIR

Course Number: *Version 1:* 610-63G10. *Version 2:* 610-63G20. *Version 3:* 610-63G20; 9-R-634.1. *Version 4:* 9-R-634;1 9-E-30.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 12 weeks (384 hours). *Version 2:* 13 weeks (398 hours). *Version 3:* 12 weeks (420–472 hours). *Version 4:* 10 weeks (350–380 hours).

Exhibit Dates: *Version 1:* 7/76–Present. *Version 2:* 11/72–6/76. *Version 3:* 6/58–10/72. *Version 4:* 3/56–5/58.

Objectives: To train enlisted personnel to inspect, diagnose malfunctions, adjust, and repair fuel and electrical systems components, using diagnostic test equipment and procedures, and to service hydraulic brake system components.

Instruction: Lectures and laboratories in inspection and repair of fuel and electrical systems. Course includes applied electricity; ignition, starting, and charging systems; gasoline and diesel fuel systems; and hydraulic brake system component repair.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in gasoline fuel systems, 3 in diesel fuel systems, 5 in automotive electrical systems, and 1 in basic hydraulic brakes (1/78). *Version 2:* In the vocational certificate category, 3 semester hours in automotive fuel systems, 3 in diesel fuel systems, and 4 in automotive electronics (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive fuel systems, 3 in diesel engine fuel systems, and 4 in automotive electronics (7/74); in the upper-division baccalaureate category, 2 semester hours in automotive fuel systems, 2 semester hours in diesel fuel systems, and 3 in automotive electronics (7/74). *Version 3:* In the vocational certificate category, 3 semester hours in automotive fuel systems and 6 in automotive electrical systems (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive fuel systems and 6 in automotive electrical systems (7/74). *Version 4:* In the vocational certificate category, 2 semester hours in automotive fuel systems and 4 in automotive electrical systems (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive fuel systems and 4 in automotive electrical systems (7/74).

Related Occupation Codes: 63G.

AR-1703-0020

ARTILLERY MOTOR TRANSPORT

Course Number: 6-B-0600; 6-B-631A; 6-B-0606; 6-O-15.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 8-14 weeks (301-492 hours).

Exhibit Dates: 8/55-12/68.

Objectives: To provide the student with a working knowledge of artillery wheeled and track vehicle maintenance and management.

Instruction: Lectures and practical exercises in power plants, chassis and systems, shop organization and maintenance, electrical systems, and turret systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in automotive electricity and 3 in automotive power plants (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in transportation management, 3 in automotive electricity, and 3 in automotive power plants (7/74); in the upper-division baccalaureate category, 3 semester hours in transportation management (7/74).

Related Occupation Codes: 630A; 631A; 632A.

AR-1704-0001

AIR TRAFFIC CONTROL OPERATOR
(Air Traffic Control Tower Operator)

Course Number: 222-93H10; 222-93H20.

Location: Aviation Center, Ft. Rucker, AL.

Length: 13-14 weeks (411-481 hours).

Exhibit Dates: 1/70-Present.

Objectives: To provide enlisted personnel with a basic knowledge of air traffic control operations, with emphasis on control tower operation.

Instruction: Lectures and practical experience in basic air traffic control and control tower operations, including aviation weather, federal aviation regulations, and air traffic control procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control (10/78).

Related Occupation Codes: 93H.

AR-1704-0002

AIR TRAFFIC CONTROL APPROACH CONTROL ENROUTE SPECIALIST

Course Number: 222-93K20.

Location: Aviation School, Ft. Rucker, AL.

Length: 16-19 weeks (553-656 hours).

Exhibit Dates: 2/70-Present.

Objectives: To provide enlisted personnel with a basic knowledge of air traffic control, with emphasis on enroute procedures.

Instruction: Lectures and practical experience in air traffic control and enroute procedures, aviation weather, navigational aids, and federal aviation regulations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic management or control (6/75).

Related Occupation Codes: 93K.

AR-1704-0003

1. AIR TRAFFIC CONTROL RADAR CONTROLLER
(Air Traffic Control Ground Control Approach Specialist)
2. AIR TRAFFIC CONTROL GROUND CONTROL APPROACH SPECIALIST

Course Number: *Version 1:* 222-93J10; 222-93J20. *Version 2:* 222-93J20.

Location: Aviation Center, Ft. Rucker, AL.

Length: *Version 1:* 16-17 weeks (527-553 hours). *Version 2:* 15 weeks (514-612 hours).

Exhibit Dates: *Version 1:* 5/73-Present. *Version 2:* 1/70-4/73.

Objectives: To train enlisted personnel in air traffic control UFR/IFR operations.

Instruction: Practical exercises and lectures in aviation weather, navigational aids, Federal Aviation Administration regulations, and air traffic control procedures.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control (10/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control (2/74); in the upper-division baccalaureate category, credit in air navigation or meteorology on the basis of institutional evaluation (12/68).

Related Occupation Codes: 93J.

AR-1704-0004

AIR TRAFFIC CONTROL (AC-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: 2-AC-C40.

Location: Aviation School, Ft. Rucker, AL.

Length: 8-12 weeks (252-364 hours).

Exhibit Dates: 11/72-Present.

Objectives: To provide enlisted personnel with entry-level training in air traffic control.

Instruction: Practical exercises in ground control and airport surveillance and approach procedures, equipment utilization, radar operations, and precision approach techniques.

Credit Recommendation: In the vocational certificate category, 3 semester hours in air traffic control approach radar techniques (2/74).

Related Occupation Codes: 71P; 93D; 93H; 93J; 93K.

AR-1704-0005

AIR TRAFFIC CONTROL (AC-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 2-AC-C42.

Location: Aviation Center, Ft. Rucker, AL.

Length: *Version 1:* 7-10 weeks (227-338 hours). *Version 2:* 8-11 weeks (239-346 hours).

Exhibit Dates: *Version 1:* 8/76-Present. *Version 2:* 8/72-7/76.

Objectives: To provide noncommissioned officers with advanced supervisory training.

Instruction: Lectures and practical exercises in unit training and administration, supply, communications and security management, preventive medicine and survival, civil operations, and air traffic control procedures. Topics also include personnel management and training, facility management, and advanced air traffic control procedures.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in air traffic management management for students holding MOS 93H or 93J (10/78); in the upper-division baccalaureate category, 3 semester hours in business or personnel management for all students (10/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in air traffic management for students holding MOS 93H, 93J or 93K (10/78); in the upper-division baccalaureate category, 3 semester hours in business or personnel management for all students (10/78).

Related Occupation Codes: 71P; 93D; 93H; 93J; 93K.

AR-1704-0006

OFFICER/WO AIR TRAFFIC CONTROL OFFICER
(Officer/Warrant Officer Air Traffic Control)

Course Number: 2G-F35; 2G-F13.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6-7 weeks (200-234 hours).

Exhibit Dates: 2/70-Present.

Objectives: To train enlisted personnel in air traffic control operations and procedures.

Instruction: Lectures and practical experience in air traffic control, terminal and enroute procedures, FAA control tower operator certification, aviation weather, and navigation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in air traffic control (10/78).

Related Occupation Codes: 982A; 100B; 101B; 101C.

AR-1704-0007

FLIGHT OPERATIONS COORDINATOR
(Flight Operations Specialist)

Course Number: 517-71P10; 517-71P20; 517-907.1; 1-R-907.1.

Location: Aviation Center, Ft. Rucker, AL.

Length: 5-7 weeks (168-229 hours).

Exhibit Dates: 5/61-Present.

Objectives: To train enlisted personnel to schedule and coordinate aircraft flights and perform related support functions.

Instruction: Lectures and practical exercises in airfield operations, including operations administration, meteorology, navigation, regulations, tactical operations, and flight information publications familiarization.

Credit Recommendation: In the vocational certificate category, 3 semester hours in introduction to aviation operations (10/78).

Related Occupation Codes: 71P; 09B.

AR-1704-0009

AVIONICS MECHANIC, SKILL DEVELOPMENT BASE

Course Number: 102-35K20-I.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 12 weeks (479 hours).

Exhibit Dates: 11/68-Present.

Objectives: To train enlisted personnel as avionics mechanics and maintenance supervisors.

Instruction: Practical experience in maintenance management, and supervision and administration of aircraft systems and avionics configurations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in maintenance management, 1 in aircraft systems, 2 in flight line operations, 2 in supervision of maintenance (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance management, 1 in aircraft systems (3/74); in the upper-division baccalaureate category, 3 semester hours in advanced military science (12/68).

Related Occupation Codes: 35K.

AR-1704-0010

Airplane Repair

Course Number: 55-R-671.2; 55-E-46.

Location: Transportation School, Ft. Eustis, VA.

Length: 11–14 weeks (394–500 hours).

Exhibit Dates: 7/56–12/68.

Objectives: To train enlisted personnel to maintain and repair fixed-wing aircraft.

Instruction: Practical experience in servicing and maintenance of hydraulics, propellers, flight-line, and electrical systems; inspection of aircraft engines and structures; and rigging.

Credit Recommendation: In the vocational certificate category, 4 semester hours in aircraft repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft repair (3/74).

AR-1704-0011

O-1/U-6 Airplane Repair, Skill Development Base

Course Number: 600-67B20-I.

Location: Aviation School, Ft. Rucker, AL.

Length: 13 weeks (521 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train enlisted personnel to perform as O-1/U-6 aircraft repairmen and maintenance supervisors.

Instruction: Practical experience in maintenance management, aircraft systems and inspection, and life support system equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in maintenance management, 3 in aircraft systems (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance management, 1 in aircraft systems (3/74).

Related Occupation Codes: 67B; 67F.

AR-1704-0012

Aircraft Powertrain Repair

Course Number: *All Versions:* 55-R-683.1. *Version 1:* 602-68D20. *Version 2:* 55-E-52.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 7–11 weeks (272–378 hours). *Version 2:* 15–16 weeks (525–575 hours).

Exhibit Dates: *Version 1:* 5/63–Present. *Version 2:* 7/56–4/63.

Objectives: To train enlisted personnel to maintain and repair aircraft power trains and allied equipment.

Instruction: Practical experience in power train systems maintenance and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in aviation power train maintenance and records (3/74); in the lower-division baccalaureate/associate degree category, credit in aviation power train maintenance and records on the basis of institutional examination (3/74). *Version 2:* In the vocational certificate category, 12 semester hours in aviation power train maintenance, records, and repair (3/74); in the lower-division baccalaureate/associate degree category, credit in aviation power train maintenance, records, and repair (3/74).

Related Occupation Codes: 68D.

AR-1704-0013

OV-1D (Mohawk) Airborne Sensor Specialist

Course Number: 221-F4.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: *Version 1:* 4 weeks (132 hours). *Version 2:* 9 weeks (300 hours).

Exhibit Dates: *Version 1:* 10/74–Present. *Version 2:* 6/72–9/74.

Objectives: To train enlisted personnel in the operation and maintenance of the surveillance and navigation systems of the OV-1D aircraft.

Instruction: *All Versions:* Lectures and practical exercises in the operation and trouble diagnosis of OV-1D aircraft systems. *Version 1:* Instruction covers troubleshooting, and limited use of test equipment in the maintenance of inertial navigation units, infrared detection units, and side-looking radar system. *Version 2:* Topics include practical experience in AN/ASM-86 inertial navigation, data annotation systems and electronic countermeasures, operating procedures, infrared surveillance, electronic warfare, and jamming.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electronics laboratory (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in airborne sensor repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in airborne sensor repair (3/74).

Related Occupation Codes: 17L.

AR-1704-0014

Aircraft Carburetor Repair

Course Number: 55-R-682.1; 55-E-55.

Location: Transportation School, Ft. Eustis, VA.

Length: 8–11 weeks (280–380 hours).

Exhibit Dates: 7/56–12/68.

Objectives: To train aircraft component repair helpers in aircraft carburetion, repair, maintenance, and overhaul techniques.

Instruction: Lectures and practical exercises in aircraft carburetion systems repair; aircraft engine and power train shop maintenance; and aircraft fuel systems components, theory, operation, maintenance, installation, and repair procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft appliance maintenance (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft appliance maintenance (3/74).

AR-1704-0015

Aircraft Component Repair (Entry)

(Aircraft Component Repair Helper (Entry))

Course Number: 55-R-680.0; 55-E-54.

Location: Transportation School, Ft. Eustis, VA.

Length: 8–9 weeks (284–317 hours).

Exhibit Dates: 7/56–12/68.

Objectives: To train enlisted personnel to assist in aircraft components and systems repair.

Instruction: Lectures and practical exercises in general aircraft maintenance, aircraft structures and rigging, hydraulics, propeller and rotor, instrument and electrical systems, and engine and power train maintenance and repair.

Credit Recommendation: In the vocational certificate category, 5 semester hours in aircraft maintenance and repair (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft main tenance and repair (3/74).

AR-1704-0016

Aircraft Hydraulic Repair

Course Number: *Version 1:* 602-68H20. *Version 2:* 602-68H20; 602-687;1 55-R-687.1. *Version 3:* 55-R-687.1. *Version 4:* 55-R-687;1 55-E-53.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8–9 weeks (257–324 hours). *Version 2:* 7 weeks (254–259 hours). *Version 3:* 11–12 weeks (385–420 hours). *Version 4:* 9 weeks (315 hours).

Exhibit Dates: *Version 1:* 6/68–Present. *Version 2:* 12/63–5/68. *Version 3:* 9/58–11/63. *Version 4:* 7/56–8/58.

Objectives: To train enlisted personnel in support maintenance of aircraft hydraulic and pneumatic systems and components.

Instruction: Lectures and practical exercises in general aircraft maintenance, basic aircraft maintenance, and aircraft hydraulic system and pneumatic system component maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in aircraft hydraulics systems and component maintenance and repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft hydraulics systems and component maintenance and repair (3/74). *Version 2:* In the vocational certificate category, 3 semester hours in aircraft hydraulics systems and component repair (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft hydraulics systems and component repair (3/74). *Version 3:* In the vocational certificate category, 4 semester hours in aircraft hydraulics systems and component maintenance and repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft hydraulics systems and component maintenance and repair (3/74). *Version 4:* In the vocational certificate category, 4 semester hours in aircraft hydraulics systems and component maintenance and repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft hydraulics systems and component maintenance and repair (3/74).

Related Occupation Codes: 68H.

AR-1704-0020

Aircraft Powertrain Repair Specialist Candidate

(Aircraft Powertrain Repair Skill Development Base)

Course Number: 602-68D20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 12 weeks (475–495 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train aircraft power train repairmen as mechanic team leaders and repair specialists.

Instruction: Lectures and practical exercises in leadership, maintenance management, quality control, helicopter power train systems, ground supply records, and nondestructive inspections.

Credit Recommendation: In the vocational certificate category, 6 semester hours in aircraft power train repair (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft power train repair (3/74).

Related Occupation Codes: 68D.

AR-1704-0021

Aircraft Hydraulics Repair Specialist Candidate

Course Number: 602-68H20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 12-13 weeks (478-520 hours).

Exhibit Dates: 10/68-Present.

Objectives: To train aircraft hydraulics repairmen to perform hydraulic maintenance and repair at the management level.

Instruction: Lectures and practical exercises in maintenance management, personnel management, aircraft hydraulic components and test equipment maintenance, and aircraft hydraulic systems inspection and troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aircraft hydraulics repair (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft hydraulics repair (3/74); in the upper-division baccalaureate category, 2 semester hours in aircraft hydraulics repair (3/74).

Related Occupation Codes: 68H.

AR-1704-0022

U-8/U-21 Airplane Repair Skill Development Base

Course Number: 600-67G20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 14 weeks (554 hours).

Exhibit Dates: 10/68-Present.

Objectives: To train aircraft repairmen to perform as technicians and supervisors.

Instruction: Lectures and practical exercises in personnel management, unit administration, communication procedures and equipment, maintenance management, quality control, aircraft inspection and troubleshooting procedures, weight and balance, fuels and lubrication, propeller and electrical system maintenance, and aircraft engine run-up, taxi procedures, and damage evaluation.

Credit Recommendation: In the vocational certificate category, 7 semester hours in aircraft repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft repair (3/74).

Related Occupation Codes: 67G.

AR-1704-0023

Aircraft Rotor and Propeller Repair Skill Development Base

Course Number: 602-68E20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 12 weeks (494 hours).

Exhibit Dates: 10/68-Present.

Objectives: To train aircraft rotor and propeller repairmen to be supervisors and technicians.

Instruction: Lectures and practical exercises in maintenance management, including quality control, publications and records, supply procedures, damage evaluation, and aircraft rotor blade and propeller inspection and repair procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft rotor and propeller repair, and credit in maintenance management on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management, 1 in aircraft rotor and propeller repair (3/74).

Related Occupation Codes: 68E.

AR-1704-0024

Modular Engine Test Stand (METS) Operator

(Aircraft Turbine Engine Test Cell Operator)

Course Number: 601-F2; 601-68B2T.

Location: Transportation School, Ft. Eustis, VA.

Length: 7-8 weeks (247-265 hours).

Exhibit Dates: 5/72-Present.

Objectives: To train enlisted personnel to test gas turbine engines and to repair test equipment.

Instruction: Lectures and practical exercises in test equipment operation and repair, including fuel systems, performance calculations, and engine testing and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in turbine engine testing and test equipment repair (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in turbine engine testing and test equipment repair (6/75).

Related Occupation Codes: 68B.

AR-1704-0025

Single-Engine Airplane Repair

Course Number: 55-R-671.4.

Location: Transportation School, Ft. Eustis, VA.

Length: 13 weeks (452-466 hours).

Exhibit Dates: 5/60-12/68.

Objectives: To train enlisted personnel to repair single-engine, fixed-wing aircraft.

Instruction: Lectures and practical exercises in single-engine, fixed-wing aircraft field maintenance procedures, including safety procedures; technical data interpretation; electrical, hydraulic, and fuel systems inspection; and engine and landing gear inspection, maintenance, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in single-engine aircraft repair (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in single-engine aircraft repair (3/74).

AR-1704-0026

Aircraft Reciprocating Engine Repair

Course Number: 601-68C20.

Location: Transportation School, Ft. Eustis, VA.

Length: 8 weeks (269-281 hours).

Exhibit Dates: 4/68-Present.

Objectives: To train enlisted personnel in direct and general support maintenance of aircraft reciprocating engines and allied equipment used on Army aircraft.

Instruction: Lectures and practical exercises in general aircraft maintenance, including maintenance management, precision tools, safety devices, oil analysis, and nondestructive testing; fundamentals of reciprocating engines; and troubleshooting.

Credit Recommendation: In the vocational certificate category, 5 semester hours in aircraft reciprocating-engine repair (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft reciprocating-engine repair (3/74).

Related Occupation Codes: 68C; 68B.

AR-1704-0027

Multi-Engine Utility Airplane Repair

Course Number: 600-67G2T; 600-67K2T.

Location: Transportation School, Ft. Eustis, VA.

Length: 5 weeks (162 hours).

Exhibit Dates: 7/67-12/68.

Objectives: To train airplane mechanics in support maintenance of multiengine utility aircraft, with emphasis on U-21A aircraft.

Instruction: Lectures and practical exercises in ground handling, ground operational checks, utility systems, landing gear, fuel systems, inspections, flight controls, engine and propeller, and electrical systems of the U-21A aircraft.

Credit Recommendation: In the vocational certificate category, 3 semester hours in aircraft field maintenance (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft field maintenance (3/74).

Related Occupation Codes: 67G; 67H; 67J; 67K; 67F.

AR-1704-0028

CH-47 Helicopter Repair Specialist Candidate

(CH-47 Helicopter Repair Skill Development Base)

Course Number: 600-67U20-1.

Location: Transportation School, Ft. Eustis, VA.

Length: 12-13 weeks (465-507 hours).

Exhibit Dates: 8/68-Present.

Objectives: To train helicopter repairmen to maintain and repair CH-47 helicopters.

Instruction: Lectures and practical exercises in military leadership, maintenance management, technical subjects, CH-47 systems, and life support equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in helicopter maintenance (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter maintenance (3/74); in the upper-division baccalaureate category, 2 semester hours in helicopter maintenance (3/74).

Related Occupation Codes: 67U.

AR-1704-0029

1. O-1/U-6 Airplane Repair
2. O-1/U-6 Airplane Repair
3. Single-Engine Observation and Utility Airplane Maintenance
4. Airplane Maintenance

Course Number: *All Versions:* 600-67B20. *Version 3:* 1-R-671.1. *Version 4:* 1-R-671.1.

Location: Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 9 weeks (290 hours). *Version 2:* 8 weeks (267 hours). *Version 3:* 5 weeks (173-182 hours). *Version 4:* 6 weeks (230 hours).

Exhibit Dates: *Version 1:* 10/72-Present. *Version 2:* 7/68-9/72. *Version 3:* 6/60-6/68. *Version 4:* 2/57-5/60.

Objectives: To train enlisted personnel to perform organizational, direct, and general support maintenance on fixed-wing aircraft.

Instruction: *All Versions:* Lectures and practical exercises in single-engine, fixed-wing aircraft maintenance, including inspection, servicing, repairing, and diagnosing operational defects. *Version 4:* Instruction deals with both single- and multi-engine aircraft.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in aircraft maintenance laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance laboratory (3/74). *Version 2:* In the vocational certificate category, 5 semester hours in aircraft maintenance laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft maintenance laboratory (3/74). *Version 3:* In the vocational certificate category, 3 semester hours in aircraft maintenance laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft maintenance laboratory (3/74). *Version 4:* In the vocational certificate category, 4 semester hours in aircraft maintenance (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft maintenance (3/74).

Related Occupation Codes: 67B.

AR-1704-0030

1. U-1A Airplane Repair
2. Single-Engine Light Transport Airplane Maintenance

Course Number: *Version 1:* 600-67C20. *Version 2:* 1-R-671.2.

Location: *Version 1:* Transportation School, Ft. Eustis, VA. *Version 2:* Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 9–12 weeks (325–442 hours). *Version 2:* 3 weeks (105–108 hours).

Exhibit Dates: *Version 1:* 7/68–Present. *Version 2:* 6/60–6/68.

Objectives: To train aircraft mechanics to repair U-1A aircraft.

Instruction: Lectures and practical exercises in U-1A maintenance, including ground handling and servicing; aircraft technical publications, forms, and records familiarization; engine inspection; and propeller, fuel, electrical, ignition, landing gear and brake, utility, instrument, and power plant systems maintenance and repair.

Credit Recommendation: In the vocational certificate category, 4 semester hours in aircraft repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft repair (3/74).

Related Occupation Codes: 67C.

AR-1704-0032

OH-6A Helicopter Repair

Course Number: 600-67N2T.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (113 hours).

Exhibit Dates: 7/66–12/68.

Objectives: To train utility-helicopter repairmen to perform support maintenance on OH-6A helicopters.

Instruction: Lectures and practical exercises in OH-6A helicopter systems, including airframe, fuel and lubrication, hydraulic, rotor, and electrical systems maintenance and repair; inspection and troubleshooting; flight control; and ground handling equipment maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter repair (2/74).

Related Occupation Codes: 67N; 67W.

AR-1704-0033

1. UH-1 Helicopter Repair
2. UH-1 Helicopter Repair
3. Single-Rotor Turbine Utility Helicopter Repair

Course Number: 600-67N10; 600-67N20.

Location: Aviation School, Ft. Rucker, AL; Transportation School, Ft. Eustis, VA.

Length: *Version 1:* Self-paced, average 11 weeks (341–361 hours). *Version 2:* 8 weeks (271 hours). *Version 3:* 11 weeks (387–392 hours).

Exhibit Dates: *Version 1:* 10/72–Present. *Version 2:* 7/68–9/72. *Version 3:* 9/65–6/68.

Objectives: To qualify aircraft maintenance apprentices as UH-1 helicopter organizational and support maintenance personnel.

Instruction: Lectures and practical exercises in helicopter systems fundamentals, including airframe, fuel and lubrication, hydraulic, rotor, and electrical systems maintenance and repair procedures; inspection and troubleshooting of helicopter systems; flight control; and ground-handling equipment maintenance.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in helicopter maintenance (10/78). *Version 2:* In the vocational certificate category, 5 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter maintenance (2/74). *Version 3:* In the vocational certificate category, 7 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (2/74).

Related Occupation Codes: 09B; 002; 67N; 67W; 67Z.

AR-1704-0034

1. CH-47 Helicopter Repair
2. CH-47 Helicopter Repair
3. Multi-Engine, Tandem-Rotor Helicopter Repair
4. Multi-Engine, Tandem-Rotor Helicopter Repair (CH-47 Aircraft Repair Transition)

Course Number: *Version 1:* 600-67U20. *Version 2:* 600-67U20. *Version 3:* 600-67U20; 600-67U30. *Version 4:* 4D-F1; 600-678;1 600-678;4 55-R-678;1 55-R-678;4 55-L-F21.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 13 weeks (434–435 hours). *Version 2:* 11 weeks (414 hours). *Version 3:* 13 weeks (472 hours). *Version 4:* 6–7 weeks (212–261 hours).

Exhibit Dates: *Version 1:* 5/72–Present. *Version 2:* 5/68–4/72. *Version 3:* 10/66–4/68. *Version 4:* 1/63–9/66.

Objectives: To train officer, enlisted, and civilian personnel in multiengine, tandem-rotor helicopter maintenance procedures.

Instruction: Lectures and practical experience in multiengine, tandem-rotor helicopter maintenance procedures, including hydraulic, electrical, instrument, flight control, stabilization, fuel, and auxiliary power systems; and helicopter structure and airframe, propulsion, rotor drive, and powerplant systems maintenance and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 7 semester hours in multiengine helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in multiengine helicopter maintenance (2/74). *Version 2:* In the vocational certificate category, 8 semester hours in multiengine helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in multiengine helicopter maintenance (2/74). *Version 3:* In the vocational certificate category, 9 semester hours in multiengine helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in multiengine helicopter maintenance (2/74). *Version 4:* In the vocational certificate category, 4 semester hours in multiengine helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in multiengine helicopter maintenance (2/74).

Related Occupation Codes: 67U; 100B; 160A.

AR-1704-0035

1. Multi-Engine, Single-Rotor Helicopter Repair
2. Medium Transport Helicopter Repair
3. Medium Transport Helicopter Repair

Course Number: *Version 1:* 600-67T30; 600-677.4. *All Versions:* 55-R-677.4.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 13–15 weeks (469–544 hours). *Version 2:* 17 weeks (626 hours). *Version 3:* 10 weeks (353 hours).

Exhibit Dates: *Version 1:* 12/63–12/68. *Version 2:* 6/63–11/63. *Version 3:* 10/62–5/63.

Objectives: To train enlisted personnel to repair multiengine, single-rotor helicopters.

Instruction: Lectures and practical experience in multiengine, single-rotor helicopter maintenance and repair, including engine structure fundamentals; operation, maintenance, and repair of hydraulic, electrical, instrument, fuel, oil, carburetion, ignition, and engine cooling systems; and operation of engine propulsion, power plant, and drive systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 10 semester hours in multiengine, single-rotor helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in multiengine, single-rotor helicopter maintenance (2/74). *Version 2:* In the vocational certificate category, 11 semester hours in multiengine, single-rotor helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in multiengine, single-rotor helicopter maintenance (2/74). *Version 3:* In the vocational certificate category, 6 semester hours in multiengine, single-rotor helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in multiengine, single-rotor helicopter maintenance (2/74).

AR-1704-0037

Airframe Welding

Course Number: 603-68G30.

Location: Transportation School, Ft. Eustis, VA.

Length: 6 weeks (231–232 hours).

Exhibit Dates: 5/67–Present.

Objectives: To train airframe repairmen to fuse ferrous and nonferrous metals using oxyacetylene welding, arc welding, or inert-gas welding equipment.

Instruction: Practical exercises in oxyacetylene welding, electric arc welding, inert-gas welding, and equipment maintenance.

Credit Recommendation: In the vocational certificate category, 5 semester hours in airframe welding (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in airframe welding (2/74).

Related Occupation Codes: 68G.

AR-1704-0038

1. OV-1 AIRPLANE REPAIR
2. OV-1 AIRPLANE REPAIR
3. MULTI-ENGINE OBSERVATION AIRPLANE MAINTENANCE
4. MULTI-ENGINE OBSERVATION AIRPLANE MAINTENANCE

Course Number: *Version 1:* 600-67H20. *Version 2:* 600-67H20. *Version 3:* 600-67H20. *Version 4:* 600-672;2 1-R-672.2.

Location: *Version 1:* Transportation School, Ft. Eustis, VA. *Version 2:* Transportation School, Ft. Eustis, VA. *Version 3:* Aviation School, Ft. Rucker, AL. *Version 4:* Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 10 weeks (325–327 hours). *Version 2:* 9–10 weeks (330–343 hours). *Version 3:* 6 weeks (221 hours). *Version 4:* 4 weeks (141–144 hours).

Exhibit Dates: *Version 1:* 8/74–Present. *Version 2:* 7/68–7/74. *Version 3:* 1/67–6/68. *Version 4:* 4/61–12/66.

Objectives: To train enlisted personnel in the maintenance of multiengine, turbine-powered aircraft.

Instruction: Lectures and practical exercises in the fundamentals of multiengine, turbine-powered aircraft, including operation, maintenance, troubleshooting and repair of hydraulic, electrical, instrument, fuel, power plant, propeller, landing gear, and flight control systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in multiengine, turbine-powered aircraft maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in multiengine, turbine-powered aircraft maintenance (2/74). *Version 3:* In the vocational certificate category, 4 semester hours in multiengine, turbine-powered aircraft maintenance (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in multiengine, turbine-powered aircraft maintenance (2/74). *Version 4:* In the vocational certificate category, 3 semester hours in multiengine, turbine-powered aircraft maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in multiengine, turbine-powered aircraft maintenance (2/74).

Related Occupation Codes: 67F; 67H; 67Z.

AR-1704-0039

H-37 HELICOPTER MECHANIC TRAINING

Course Number: None.

Location: Aviation School, Ft. Rucker, AL.

Length: 8 weeks (280 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To train enlisted personnel to maintain and repair H-37 helicopters.

Instruction: Lectures and practical exercises in H-37 helicopter maintenance, including preflight and postflight inspection and troubleshooting; starting procedures, tracking and vibrations, and weight and balance techniques; hydraulic, utility, electrical, transmission, and power plant systems; and rotor-actuating mechanism maintenance.

Credit Recommendation: In the vocational certificate category, 6 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (2/74).

AR-1704-0040

1. CH-34 HELICOPTER REPAIR
2. SINGLE-ENGINE, SINGLE-ROTOR HELICOPTER REPAIR
3. SINGLE-ENGINE, SINGLE-ROTOR HELICOPTER REPAIR
4. OBSERVATION, UTILITY AND TRANSPORT HELICOPTER REPAIR

Course Number: *Version 1:* 600-67P20. *Version 2:* 600-67Q20; 600-675.4. *Version 3:* 55-R-675.4. *Version 4:* 55-R-675.4.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8 weeks (272 hours). *Version 2:* 14–16 weeks (478–544 hours). *Version 3:* 19 weeks (673 hours). *Version 4:* 22 weeks (774–803 hours).

Exhibit Dates: *Version 1:* 1/69–Present. *Version 2:* 11/65–12/68. *Version 3:* 1/64–10/65. *Version 4:* 9/60–12/63.

Objectives: To train enlisted personnel in single-engine, single-rotor helicopter support maintenance.

Instruction: Lectures and practical exercises in single-engine, single-rotor helicopter support maintenance, including inspection and troubleshooting helicopter systems; ground handling equipment operation; and power train, airframe, fuel and lubrication, hydraulic, electrical, rotor, and instrument systems operation and maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (2/74). *Version 2:* In the vocational certificate category, 12 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in helicopter maintenance (2/74); in the upper-division baccalaureate category, credit in helicopter repair shop on the basis of institutional evaluation (12/68). *Version 3:* In the vocational certificate category, 10 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in helicopter maintenance (2/74); in the upper-division baccalaureate category, credit in helicopter repair shop on the basis of institutional evaluation (12/68). *Version 4:* In the vocational certificate category, 16 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in helicopter maintenance (2/74).

Related Occupation Codes: 67Q; 67W.

AR-1704-0041

U-1A AIRPLANE REPAIR SKILL DEVELOPMENT BASE

Course Number: 600-67C20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 13 weeks (505 hours).

Exhibit Dates: 5/69–Present.

Objectives: To train aircraft repairmen in the aviation maintenance management procedures applicable to the U-1A aircraft.

Instruction: Lectures and practical exercises in leadership, maintenance management, technical maintenance subjects, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft repair (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft repair (3/74).

Related Occupation Codes: 67C; 67U.

AR-1704-0043

MULTI-ENGINE AIRPLANE REPAIR

Course Number: *Version 1:* 600-67K20. *Version 2:* 600-672;4 55-R-672.4.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 16 weeks (561 hours). *Version 2:* 19 weeks (669–680 hours).

Exhibit Dates: *Version 1:* 9/66–12/68. *Version 2:* 8/63–8/66.

Objectives: To train enlisted personnel in field maintenance of multiengine, fixed-wing aircraft.

Instruction: Lectures and practical experience in basic aircraft structures, systems, and power plants; operation, inspection, maintenance, and troubleshooting of propellers, power plants, and power plant systems; instrument, electrical, and hydraulic systems repair; and engine structural repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in multiengine aircraft repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in multiengine aircraft repair (2/74). *Version 2:* In the vocational certificate category, 6 semester hours in multiengine aircraft repair (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in multiengine aircraft repair (2/74).

Related Occupation Codes: 67K; 67F.

AR-1704-0045

AIRCRAFT ENGINE REPAIR

Course Number: *All Versions:* 55-R-681.1. *Version 4:* 55-E-49.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8–9 weeks (305–317 hours). *Version 2:* 13 weeks (459 hours). *Version 3:* 11 weeks (385 hours). *Version 4:* 8 weeks (280 hours).

Exhibit Dates: *Version 1:* 5/63–12/68. *Version 2:* 1/60–4/63. *Version 3:* 6/58–12/59. *Version 4:* 7/56–5/58.

Objectives: To train enlisted personnel to repair aircraft engines and allied equipment.

Instruction: Practical experience in maintenance procedures for aircraft power plants, hydraulic systems, instruments, and propellers.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in aircraft power plant repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft power plant repair (2/74). *Version 2:* In the vocational certificate category, 8 semester hours in aircraft power plant repair (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft power plant repair (2/74). *Version 3:* In the vocational certificate category, 7 semester hours in aircraft power plant repair (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft power plant repair (2/74). *Version 4:* In the vocational certificate category, 6 semester hours in aircraft power plant repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft power plant repair (2/74).

AR-1704-0047

AIRFRAME REPAIR

Course Number: *Version 1:* 603-68G20; 603-686.1. *Version 2:* 55-R-686.1. *Version 3:* 55-R-686.1. *Version 4:* 55-R-686;1 55-E-42.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 11 weeks (381–405 hours). *Version 2:* 8–9 weeks (309–315 hours). *Version 3:* 13 weeks (455–465 hours). *Version 4:* 10 weeks (350–356 hours).

Exhibit Dates: *Version 1:* 3/66–Present. *Version 2:* [illegible]63–2/66. *Version 3:* 5/59–7/63. *Version 4:* 7/56–4/59.

Objectives: To train enlisted personnel to inspect and repair aircraft structural members, sheet metal surfaces, fiberglass, and plastics.

Instruction: Lectures and practical exercises in general aircraft maintenance; structural repair, including metals, plastics, and fiberglass; sheet metal shop tools and procedures; forming processes; fasteners; and painting.

Credit Recommendation: *Version 1:* In the vocational certificate category, 7 semester hours in airframe repair shop (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in airframe repair shop (2/74). *Version 2:* In the vocational certificate category, 5 semester hours in airframe repair shop (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in airframe repair shop (2/74). *Version 3:* In the vocational certificate category, 8 semester hours in airframe repair shop (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in airframe repair shop (2/74). *Version 4:* In the vocational certificate category, 7 semester hours in airframe repair shop (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in airframe repair shop (2/74).

Related Occupation Codes: 68G.

AR-1704-0048

SINGLE-ROTOR TURBINE UTILITY HELICOPTER MAINTENANCE

Course Number: 1-R-675.2.

Location: Aviation School, Ft. Rucker, AL.

Length: 3 weeks (101 hours).

Exhibit Dates: 12/63–12/68.

Objectives: To train enlisted personnel in the organizational maintenance of single-engine turbine helicopters.

Instruction: Lectures and technical experience in airframe, power plant, weight and balance, instruments, electrical, transmission flight control, inspection, troubleshooting, adverse weather operations, and armament.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter maintenance (2/74).

AR-1704-0049

1. CH-37 HELICOPTER REPAIR
2. MULTI-ENGINE MEDIUM TRANSPORT HELICOPTER MAINTENANCE

Course Number: *All Versions:* 600-67T20. *Version 2:* 1-R-677.1.

Location: *Version 1:* Transportation School, Ft. Eustis, VA. *Version 2:* Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 12 weeks (412 hours). *Version 2:* 5–6 weeks (175–193 hours).

Exhibit Dates: *Version 1:* 1/67–Present. *Version 2:* 6/60–12/66.

Objectives: To provide enlisted personnel with training in organizational, direct, and general support maintenance of CH-37 or multiengine, medium transport helicopters.

Instruction: Lectures and practical exercises in multiengine transport helicopter repair procedures; weight and balance; and airframe, reciprocating-engine, and rotor-blade maintenance and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in multiengine helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, credit in multiengine helicopter repair on the basis of institutional evaluation (2/74). *Version 2:* In the vocational certificate category, 4 semester hours in multiengine helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, credit in multiengine helicopter maintenance on the basis of institutional evaluation (2/74).

Related Occupation Codes: 67A; 67T.

AR-1704-0050

SINGLE-ROTOR LIGHT TRANSPORT HELICOPTER MAINTENANCE

(Single-Rotor Utility and Light Transport Helicopter Maintenance)

Course Number: 600-67P20; 1-R-675.3.

Location: Aviation School, Ft. Rucker, AL.

Length: 4–5 weeks (140–184 hours).

Exhibit Dates: 6/60–12/68.

Objectives: To train enlisted personnel to repair single-rotor, single-engine helicopters.

Instruction: Lectures and practical exercises in servicing, inspecting, and maintaining single-rotor, single-engine helicopters; fuel, lubrication, electrical, and ignition systems operation and maintenance; and power plant, transmission and drive systems, rotor and hydraulic systems, and automatic stabilization equipment maintenance procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in single-rotor, single-engine helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in single-rotor, single-engine helicopter maintenance (2/74).

Related Occupation Codes: 67A; 67P; 67W.

AR-1704-0051

AH-1G HELICOPTER REPAIR

Course Number: 600-67Y20.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 11 weeks (390 hours). *Version 2:* 11 weeks (375 hours). *Version 3:* 8 weeks (299 hours).

Exhibit Dates: *Version 1:* 1/74–Present. *Version 2:* 11/72–12/73. *Version 3:* 7/68–10/72.

Objectives: To train enlisted personnel to repair AH-1G helicopters.

Instruction: *All Versions:* Lectures and practical exercises in general aircraft maintenance procedures and helicopter equipment, auxiliary equipment, and power plant maintenance and inspections. *Version 1:* Instruction is self-paced, with increased emphasis on practical training.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in helicopter maintenance (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (2/74). *Version 3:* In the vocational certificate category, 5 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (2/74).

Related Occupation Codes: 67Y.

AR-1704-0052

TANDEM-ROTOR HELICOPTER MAINTENANCE

(Utility and Cargo, Tandem-Rotor Helicopter Maintenance)

Course Number: 1-R-674.1.

Location: Aviation School, Ft. Rucker, AL.

Length: 4–6 weeks (140–210 hours).

Exhibit Dates: 3/57–12/68.

Objectives: To train enlisted personnel to repair tandem-rotor helicopters.

Instruction: Practical experience in maintenance systems, electronics, flight control, loading gear and brakes, rigging, and forms and records.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter maintenance (2/74).

AR-1704-0053

UTILITY AND CARGO SINGLE-ROTOR HELICOPTER REPAIR

Course Number: *All Versions:* 55-R-673.2. *Version 2:* 55-E-58.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 17–18 weeks (600–647 hours). *Version 2:* 14 weeks (506–508 hours).

Exhibit Dates: *Version 1:* 7/58–12/68. *Version 2:* 7/56–6/58.

Objectives: To train enlisted personnel to repair single-rotor helicopters.

Instruction: Practical experience in inspection, adjustment, removal, repair, and replacement of power trains, hydraulic and electrical systems, and rotor blade assemblies and components of single-rotor utility cargo helicopters.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in single-rotor helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in single-rotor helicopter repair (2/74). *Version 2:* In the vocational certificate category, 5 semester hours in single-rotor helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in single-rotor helicopter repair (2/74).

AR-1704-0054

AIRCRAFT ROTOR AND PROPELLER REPAIR

Course Number: *Version 1:* 602-68E20; 602-684;1 55-R-684.1. *Version 2:* 55-E-50.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 14–15 weeks (509–544 hours). *Version 2:* 12 weeks (421 hours).

Exhibit Dates: *Version 1:* 6/58–Present. *Version 2:* 7/56–5/58.

Objectives: To train enlisted personnel to repair aircraft propellers, rotor blades, and allied equipment.

Instruction: *All Versions:* Lectures and practical experience in shop procedures, repair, blueprint reading, wood and metal rotor and propeller repair. *Version 1:* Flight theory.

Credit Recommendation: *Version 1:* In the vocational certificate category, 11 semester hours in rotor and propeller repair (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in rotor and propeller repair (2/74). *Version 2:* In the vocational certificate category, 9 semester hours in rotor and propeller repair (2/74); in the lower-division baccalaureate/associate degree category, credit in rotor and propeller repair on the basis of institutional evaluation (2/74).

AR-1704-0055

1. OH-13/OH-23 Helicopter Repair
2. Single-Rotor Observation Helicopter Maintenance

Course Number: *All Versions:* 600-67M20. *Version 2:* 1-R-675.1.

Location: Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 9-11 weeks (301-338 hours). *Version 2:* 5 weeks (175-178 hours).

Exhibit Dates: *Version 1:* 7/68-Present. *Version 2:* 6/60-6/68.

Objectives: To train enlisted personnel to repair single-engine, single-rotor helicopters.

Instruction: Practical experience in airframe and systems maintenance, and inspection of single-engine, single-rotor helicopters.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in light-helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in light-helicopter maintenance (2/74). *Version 2:* In the vocational certificate category, 1 semester hour in light-helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in light-helicopter maintenance (2/74).

Related Occupation Codes: 67M.

AR-1704-0056

HU-1A Helicopter Repair

Course Number: 55-R-F14.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (105-109 hours).

Exhibit Dates: 9/59-12/68.

Objectives: To train enlisted personnel to repair helicopters.

Instruction: Lectures and practical experience in inspection, adjustment, removal, and replacement of assemblies and subassemblies of HU-1A helicopters.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter repair (2/74).

AR-1704-0057

Twin-Engine Helicopter Repair

Course Number: 55-R-F12.

Location: Transportation School, Ft. Eustis, VA.

Length: 12 weeks (430 hours).

Exhibit Dates: 2/59-12/68.

Objectives: To train enlisted personnel in helicopter inspection techniques, and the adjustment, removal, and replacement of assemblies.

Instruction: Lectures and practical experience in engines, power trains, structures, rigging, electronics, rotor blades, hydraulics, and reciprocator servicing.

Credit Recommendation: In the vocational certificate category, 1 semester hour in helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter repair (2/74).

AR-1704-0058

1. Single-Engine Tandem-Rotor Helicopter Repair
2. Tandem-Rotor Helicopter Repair (Utility and Cargo Tandem Rotor Helicopter Repair)

Course Number: *Version 1:* 600-676.4. *All Versions:* 55-R-676.4. *Version 2:* 55-R-674;2 55-E-59.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 13 weeks (465-466 hours). *Version 2:* 13-15 weeks (470-564 hours).

Exhibit Dates: *Version 1:* 12/63-12/68. *Version 2:* 7/56-11/63.

Objectives: To train personnel in field maintenance of single-engine, tandem-rotor helicopters.

Instruction: Lectures and practical exercises in fuel systems, structures, power plant theory and operation, lubrication, fuel carburetion hydraulics and plumbing, flight theory, records and publications, ground handling, weight and balance, instruments, and troubleshooting.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in helicopter repair (2/74). *Version 2:* In the vocational certificate category, 10 semester hours in helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in helicopter repair (2/74).

AR-1704-0059

Reconnaissance Helicopter Repair

Course Number: *All Versions:* 55-R-672.2. *Version 3:* 55-E-57.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 15 weeks (533 hours). *Version 2:* 17 weeks (595 hours). *Version 3:* 13 weeks (455-466 hours).

Exhibit Dates: *Version 1:* 5/59-12/68. *Version 2:* 7/58-4/59. *Version 3:* 7/56-6/58.

Objectives: To train enlisted personnel in the repair of reconnaissance helicopters.

Instruction: Practical experience in inspection, adjustment, removal, repair, and replacement of reconnaissance helicopter engines, power trains, structure, hydraulic and electrical systems, and rotor blade assemblies, subassemblies, and components.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in reconnaissance helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in reconnaissance helicopter repair (2/74). *Version 2:* In the vocational certificate category, 6 semester hours in reconnaissance helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in reconnaissance helicopter repair (2/74). *Version 3:* In the vocational certificate category, 4 semester hours in reconnaissance helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in reconnaissance helicopter repair (2/74).

AR-1704-0060

AH-1G (Hueycobra) Helicopter Repair Transition

Course Number: 600-67N30.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (102 hours).

Exhibit Dates: 7/67-12/68.

Objectives: To train helicopter repairmen to repair AH-1G high-performance helicopters.

Instruction: Lectures and practical exercises in AH-1G high-performance helicopter support and organizational maintenance, including weight and balance principles; tools and equipment operation; and rotor, electrical, and flight control systems operation and repair.

Credit Recommendation: In the vocational certificate category, 3 semester hours in helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter repair (2/74).

Related Occupation Codes: 67N; 67W.

AR-1704-0061

CH-54 Helicopter Repair Specialist Candidate
(CH-54 Helicopter Repair Skill Development Base)

Course Number: 600-67X20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 12 weeks (484-500 hours).

Exhibit Dates: 7/69-Present.

Objectives: To train enlisted personnel to repair multiengine, single-rotor helicopters.

Instruction: Lectures and practical exercises in Army maintenance management, including quality control, maintenance planning and control, publications, and supply procedures; operation, maintenance, troubleshooting, and repair of multiengine, single-rotor helicopters.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter maintenance, credit in maintenance management on the basis of institutional evaluation (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management, 1 in helicopter maintenance (2/74); in the upper-division baccalaureate category, 1 semester hour in maintenance management (2/74).

Related Occupation Codes: 67X.

AR-1704-0062

Aircraft Armament Maintenance Supervisor

Course Number: 4D-F3.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 5 weeks (156-169 hours).

Exhibit Dates: 4/72-Present.

Objectives: To train commissioned and warrant officers to supervise aircraft armament maintenance personnel.

Instruction: Conferences and practical exercises in utility and observation helicopter armament subsystems, attack helicopter armament subsystems, publications, maintenance, ammunition, and safety procedures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/74).

Related Occupation Codes: 100B; 100E.

AR-1704-0063

OH-6 Helicopter Repair

Course Number: 600-67V20.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 7 weeks (220 hours). *Version 2:* 7-8 weeks (246-262 hours). *Version 3:* 4 weeks (133 hours).

Exhibit Dates: *Version 1:* 9/74-Present. *Version 2:* 11/72-8/74. *Version 3:* 12/68-10/72.

Objectives: To train enlisted personnel in the maintenance and repair of single-rotor, turbine-powered helicopters.

Instruction: Lectures and practical exercises in Army aircraft maintenance, including hydraulics, fuel and lubrication systems, flight controls, instruments, and electrical and rotary-wing systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in helicopter maintenance (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter maintenance (6/75). *Version 2:* In the vocational certificate category, 5 semester hours in single-rotor, turbine-powered helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in single-rotor, turbine-powered helicopter maintenance (2/74). *Version 3:* In the vocational certificate category, 2 semester hours in single-rotor, turbine-powered helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in single-rotor, turbine-powered helicopter maintenance (2/74).

Related Occupation Codes: 67V; 67W; 67Z.

AR-1704-0064

1. UH-1 Helicopter Repair Specialist Candidate
2. UH-1 Helicopter Repair Skill Development Base

Course Number: 600-67N20-I.

Location: *All Versions:* Transportation School, Ft. Eustis, VA. *Version 2:* Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 12 weeks (467 hours). *Version 2:* 13 weeks (526 hours).

Exhibit Dates: *Version 1:* 11/70-Present. *Version 2:* 10/68-10/70.

Objectives: To train enlisted personnel in the maintenance and repair of UH-1 helicopters.

Instruction: Lectures and practical exercises in leadership, maintenance management, maintenance and repair of UH-1 helicopter systems and components, and life support equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in UH-1 helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in UH-1 helicopter repair (2/74). *Version 2:* In the vocational certificate category, 2 semester hours in UH-1 helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in UH-1 helicopter repair (2/74).

Related Occupation Codes: 67N.

AR-1704-0065

H-37 Helicopter Crew Training

Course Number: 1-H-F17.

Location: Aviation School, Ft. Rucker, AL.

Length: 6 weeks (215 hours).

Exhibit Dates: 4/58-12/68.

Objectives: To train officer aviators, and enlisted personnel and mechanics who have completed the transport helicopter mechanics course, in transition flight training and maintenance of H-37 helicopters.

Instruction: Lectures and practical exercises in helicopter flight training and maintenance, including general information and description; preflight inspection; airframe group; power plants and accessories; rotor head actuating mechanisms; hydraulic systems; utility and electrical systems; transition flight training; and practical line maintenance.

Credit Recommendation: In the vocational certificate category, 1 semester hour (for aviators) or 3 semester hours (for enlisted men) in multiengine, single-rotor helicopter maintenance (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour (for aviators) or 2 semester hours (for enlisted men) in multiengine single-rotor helicopter maintenance (5/74).

Related Occupation Codes: 100C.

AR-1704-0066

OH-58 Helicopter Repair

Course Number: 600-67V10; 600-67V2T.

Location: Aviation School, Ft. Rucker, AL.

Length: *Version 1:* Self-paced 8 weeks (255-275 hours). *Version 2:* 5 weeks (181 hours).

Exhibit Dates: *Version 1:* 10/72-Present. *Version 2:* 7/69-9/72.

Objectives: To train enlisted personnel in organizational, direct, and general support maintenance of the OH-58 helicopter.

Instruction: Lectures and practical exercises in the maintenance of OH-58 helicopters, including power plants, plumbing and hydraulics, instruments, fuel and lubricants, rotor systems, and inspection and troubleshooting fundamentals.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter repair (10/78). *Version 2:* In the vocational certificate category, 4 semester hours in helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter repair (2/74).

Related Occupation Codes: 67V; 67W; 00Z; 67Z.

AR-1704-0067

1. U-8/U-21 Airplane Repair
2. U-8/U-21 Airplane Repair
3. Multi-Engine Command Airplane Maintenance
4. Multi-Engine Command Airplane Maintenance

Course Number: *Version 1:* 600-67G20. *Version 2:* 600-67G20. *Version 3:* 600-67G20. *Version 4:* 1-R-672.1.

Location: *Version 1:* Transportation School, Ft. Eustis, VA. *Version 2:* Transportation School, Ft. Eustis, VA. *Version 3:* Aviation School, Ft. Rucker, AL. *Version 4:* Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 13 weeks (436-445 hours). *Version 2:* 14-15 weeks (480-525 hours). *Version 3:* 5 weeks (175 hours). *Version 4:* 3 weeks (108-110 hours).

Exhibit Dates: *Version 1:* 8/74-Present. *Version 2:* 8/68-7/74. *Version 3:* 1/67-7/68. *Version 4:* 6/60-12/66.

Objectives: To train enlisted personnel in organizational maintenance of multi-engine, fixed-wing aircraft.

Instruction: Lectures and practical exercises in organizational maintenance functions, including inspection, service and repair, alignment, replacement, and maintenance operational checks on all systems and components of multi-engine light aircraft.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance management (6/75). *Version 2:* In the vocational certificate category, 12 semester hours in aircraft and engine repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft and engine repair (2/74). *Version 3:* In the vocational certificate category, 4 semester hours in aircraft maintenance (2/74); in the lower-division baccalaureate/associate degree category, credit in aircraft maintenance on the basis of institutional evaluation (2/74). *Version 4:* In the vocational certificate category, 2 semester hours in aircraft maintenance (2/74); in the lower-division baccalaureate/associate degree category, credit in aircraft maintenance on the basis of institutional evaluation (2/74).

Related Occupation Codes: 67A; 67F; 67G; 67Z.

AR-1704-0068

Aircraft Turbine Engine Repair

Course Number: 601-68B20.

Location: Transportation School, Ft. Eustis, VA.

Length: 8-12 (self-paced) weeks (292-406 hours).

Exhibit Dates: 4/68-Present.

Objectives: To train enlisted personnel in direct and general support maintenance of aircraft turbine engines and allied equipment.

Instruction: Lectures and practical experience in theory, operation, maintenance, troubleshooting, and repair of various turbine engines, including assemblies, subassemblies and component parts, test stand operations, and performance analysis.

Credit Recommendation: In the vocational certificate category, 3 semester hours in aircraft turbine engine repair (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft turbine engine repair (3/74).

Related Occupation Codes: 68B; 67Z.

AR-1704-0069

Tandem-Rotor Light Transport Helicopter Maintenance

Course Number: 600-67S20; 1-R-676.1.

Location: Aviation School, Ft. Rucker, AL.

Length: 4-5 weeks (140-182 hours).

Exhibit Dates: 6/60-12/66.

Objectives: To train enlisted personnel in organizational maintenance of single-engine, tandem-rotor, light transport helicopters.

Instruction: Practical experience in ground handling and maintenance of engine run-in; landing gear; brake, flight control, ignition, fuel, oil, hydraulics and airframe systems; and aerodynamics and avionics.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter maintenance (2/74).

Related Occupation Codes: 67A; 67S; 67W.

AR-1704-0070

1. AIRCRAFT MAINTENANCE APPRENTICE (Aircraft Maintenance (Entry))
2. AIRCRAFT MAINTENANCE (ENTRY)

Course Number: *Version 1:* 600-67A10; 600-670;0 1-R-670.0. *Version 2:* 1-R-670;0 1-E-18.

Location: *Version 1:* Transportation School, Ft. Eustis, VA. *All Versions:* Aviation School, Ft. Rucker, AL.

Length: *Version 1:* 5-6 weeks (178-272 hours). *Version 2:* 8 weeks (288-308 hours).

Exhibit Dates: *Version 1;* 6/60-Present. *Version 2:* 8/56-5/60.

Objectives: To train enlisted personnel in airfield servicing and maintenance of fixed- and rotary-wing aircraft.

Instruction: Lectures and practical experience in basic aircraft maintenance, systems maintenance, fundamentals of internal defense and development, safetying procedures, theory of flight, basic hydraulics, and airfield operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in basic aircraft maintenance (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic aircraft maintenance (2/74). *Version 2:* In the vocational certificate category, 4 semester hours in basic aircraft maintenance (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic aircraft maintenance (3/74).

Related Occupation Codes: 67A; 67B; 67C; 67G; 67H; 67U; 67V; 67W; 67X; 67Y.

AR-1704-0071

CH-54 HELICOPTER REPAIR

Course Number: 600-67X20.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 14 weeks (485 hours). *Version 2:* 14 weeks (501 hours). *Version 3:* 11 weeks (395 hours).

Exhibit Dates: *Version 1:* 10/74-Present. *Version 2:* 5/72-9/74. *Version 3:* 7/68-4/72.

Objectives: To train enlisted personnel in organizational, direct, and general support maintenance of multiengine, single-rotor helicopters.

Instruction: Lectures and practical experience in aviation maintenance, basic aerodynamics, hydraulics, safetying techniques, publications, aircraft inspections, and inflight maintenance duties.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft maintenance (6/75). *Version 2:* In the vocational certificate category, 11 semester hours in multiengine helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in multiengine helicopter repair (2/74). *Version 3:* In the vocational certificate category, 6 semester hours in multiengine helicopter repair (2/74); in the lower-division baccalaureate/associate degree category, credit in multiengine helicopter repair on the basis of institutional evaluation (2/74).

Related Occupation Codes: 67X.

AR-1704-0072

AIRCRAFT TURBINE ENGINE REPAIR SPECIALIST CANDIDATE
(Aircraft Turbine Engine Repair, Development Base)

Course Number: 601-68B20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 12-13 weeks (477-537 hours).

Exhibit Dates: 10/68-Present.

Objectives: To train enlisted personnel to function as senior technicians in aircraft turbine engine repair.

Instruction: Lectures and practical exercises in leadership, maintenance management, and gas turbine engine inspection, testing, and removal.

Credit Recommendation: In the vocational certificate category, 5 semester hours in turbine maintenance management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in turbine maintenance management (2/74).

Related Occupation Codes: 68B.

AR-1704-0074

MULTI-ENGINE MEDIUM TRANSPORT AIRPLANE MAINTENANCE

Course Number: 600-672.3; 1-R-672.3.

Location: Aviation School, Ft. Rucker, AL.

Length: 4 weeks (140-144 hours).

Exhibit Dates: 3/62-12/68.

Objectives: To provide mechanics of single-engine aircraft with training in multiengine, fixed-wing, medium transport aircraft organizational maintenance.

Instruction: Lectures and practical exercises in multiengine, fixed-wing, medium transport aircraft organizational maintenance, including fuel, induction, ignition, oil, electrical, and hydraulic systems maintenance; instrument system, flight controls, and ground handling operations; and inspections, management procedures, and record keeping methods.

Credit Recommendation: In the vocational certificate category, 3 semester hours in aircraft maintenance and repair (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft maintenance and repair (3/74).

AR-1704-0075

1. AIRCRAFT ELECTRICIAN REPAIR (Aircraft Electrician)
2. AIRCRAFT ELECTRICIAN
3. AIRCRAFT ELECTRICIAN

Course Number: *Version 1:* 602-68F20. *All Versions:* 55-R-685.1. *Version 3:* 55-R-655;1 55-E-48.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 13-15 weeks (505-648 hours). *Version 2:* 13-16 weeks (560-748 hours). *Version 3:* 16-19 weeks (704-836 hours).

Exhibit Dates: *Version 1:* 11/64-Present. *Version 2:* 2/60-10/64. *Version 3:* 7/56-1/60.

Objectives: To train enlisted personnel to perform direct and general support maintenance of aircraft electrical systems and components.

Instruction: Lectures and laboratories in aircraft electrical systems, including DC and AC electrical fundamentals, batteries, DC and AC generation systems, power distribution, ignition systems, AC and DC motors, and general aircraft maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 16 semester hours in electricity, 8 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in electricity, 4 in electrical laboratory (3/74). *Version 2:* In the vocational certificate category, 12 semester hours in electricity, 4 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity, 4 in electrical laboratory (3/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity, 2 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity, 1 in electrical laboratory (3/74).

Related Occupation Codes: 68F.

AR-1704-0076

FLIGHT OPERATIONS COORDINATOR, SKILL DEVELOPMENT BASE

Course Number: 517-71P20-I.

Location: Aviation School, Ft. Rucker, AL.

Length: 13 weeks (496 hours).

Exhibit Dates: 1/69-Present.

Objectives: To train flight operations coordinators to perform as supervisors and technicians.

Instruction: Lectures and practical exercises in the coordination of flight operations, including leadership; administration; Army functional files; individual flight record file; navigation and weather review; air traffic control; criteria for site selection; maintenance management; life support equipment; fire fighting and crash rescue subjects; and airmobile operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

Related Occupation Codes: 71P.

AR-1704-0077

LIGHT TARGET MISSILE LAUNCHER OPERATION AND AIRFRAME AND ENGINE MAINTENANCE
(RCAT Airframe and Engine Maintenance)

Course Number: 600-17J20; 44-R-105.1; 44-R-209.1; 44-E-24.

Location: *Version 1:* Combat Surveillance School, Ft. Huachuca, AZ; Air Defense School, Ft. Huachuca, AZ. *Version 2:* Air Defense School, Ft. Bliss, TX.

Length: 7-9 weeks (180-320 hours).

Exhibit Dates: 3/57-12/68.

Objectives: To train enlisted personnel as drone and target aircraft crewmen.

Instruction: *Version 1:* Lectures and practical exercises in launch and recovery of unmanned aircraft; organizational maintenance of launchers and associated ground support equipment; and organizational and direct support maintenance of aircraft airframes and engines.

Credit Recommendation: In the vocational certificate category, 3 semester hours in airframe and engine maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in airframe and engine maintenance (6/74).

AR-1704-0078

HELICOPTER ARMAMENT SUBSYSTEM M22 AND SIMULATOR DX43 REPAIR

Course Number: 646-F2.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 6 weeks (197 hours).

Exhibit Dates: 12/69-Present.

Objectives: To train qualified aircraft armament repairmen in the repair of the helicopter armament subsystem M22 and simulator DX43.

Instruction: Lectures and practical exercises in direct and general support maintenance of helicopter anti-tank guided missile systems and simulator DX43.

Credit Recommendation: No credit because of the military nature of the course (6/74).

Related Occupation Codes: 45J.

AR-1704-0079

Single-Rotor Helicopter Maintenance
(Utility and Cargo, Single Rotor Helicopter Maintenance)

Course Number: 1-R-673.1.

Location: Aviation School, Ft. Rucker, AL.

Length: 5-6 weeks (184-223 hours).

Exhibit Dates: 2/57-12/68.

Objectives: To train qualified aircraft maintenance crewmen to perform as single-rotor helicopter mechanics.

Instruction: Lectures and practical exercises in organizational maintenance of single-rotor utility and transport helicopters, including H-34 introduction, airframe, weight and balance, power transmission, landing gear and brakes, fuel and oil systems, electrical system, hydraulic systems, main- and tail-rotor systems, tacking and vibrations, external loads, internal loads, engine run-up and organizational maintenance, inspections, and engine installation and controls.

Credit Recommendation: In the vocational certificate category, 6 semester hours in aircraft mechanics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft mechanics (6/74).

AR-1704-0080

H-37 Helicopter Organizational Maintenance

Course Number: 1-R-F25.

Location: Aviation School, Ft. Rucker, AL.

Length: 5 weeks (175 hours).

Exhibit Dates: 2/59-12/68.

Objectives: To train experienced tandem- or single-rotor helicopter maintenance personnel in the organizational maintenance of H-37 helicopters.

Instruction: Lectures and practical exercises in organizational maintenance of H-37 helicopters, including general description, airframe group, power plants and accessories, transmission system, rotor head actuating system, instruments, electrical systems, inspections, winterization, ventilating and heating systems, in-flight familiarization, landing gear servicing, wheels and brake system, and gear boxes.

Credit Recommendation: In the vocational certificate category, 4 semester hours in rotary-wing aircraft maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in rotary-wing aircraft maintenance (6/74).

AR-1704-0081

Helicopter Armament Subsystem M22 and DX43 Mechanic

Course Number: 646-F1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 2 weeks (70 hours).

Exhibit Dates: 3/70-Present.

Objectives: To train qualified aircraft armament subsystem mechanics as helicopter armament subsystem M22 and DX43 simulator mechanics.

Instruction: Lectures and practical exercises in organizational maintenance of the M22 subsystem and DX43 flight control simulator, including supply procedures, test equipment, internal defense and development, M22 antitank guided missile subsystem introduction, launcher and supporting equipment, guidance control unit, system functioning DX43 simulator introduction, operational check-out and repair, handling procedures, and review and maintenance.

Credit Recommendation: In the vocational certificate category, 1 semester hour in systems organizational maintenance (6/74).

Related Occupation Codes: 45M.

AR-1704-0082

Rotary-Wing Technical Inspector

Course Number: 55-R-679.5.

Location: Transportation School, Ft. Eustis, VA.

Length: 5 weeks (185 hours).

Exhibit Dates: 5/63-5/65.

Objectives: To train enlisted personnel who have previous technical experience to perform as aircraft repair supervisors and inspectors.

Instruction: Lectures and practical exercises in technical inspection of rotary-wing aircraft, including inspection of reciprocating engines; controls; power trains, airframe structures; rotors and blades; instrument, electrical, and hydraulic systems; nondestructive inspections; gas turbine engine familiarization; aircraft publications; supply responsibilities; and maintenance concepts and quality control.

Credit Recommendation: In the vocational certificate category, 6 semester hours in aviation maintenance management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (6/74); in the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (6/74).

AR-1704-0083

Aircraft Armament Subsystem Mechanic

Course Number: 646-45M20.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 9-13 weeks (261-468 hours).

Exhibit Dates: 1/70-Present.

Objectives: To train enlisted personnel in aircraft armament subsystems organizational maintenance.

Instruction: Lectures and practical exercises in aircraft armament maintenance fundamentals, including disassembly, assembly, installation, troubleshooting, and repair of M5 machine gun, rocket, and AH-1G armament subsystems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in basic mechanics and mechanical laboratory (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic mechanics and mechanical laboratory (6/75).

Related Occupation Codes: 45M; 45Z.

AR-1704-0084

Reconnaissance Helicopter Maintenance

Course Number: 1-R-672.1.

Location: Aviation School, Ft. Rucker, AL.

Length: 5-6 weeks (177-234 hours).

Exhibit Dates: 2/57-5/60.

Objectives: To train enlisted personnel as reconnaissance helicopter mechanics.

Instruction: Lectures and practical exercises in organizational maintenance of reconnaissance helicopters, including introduction to reconnaissance helicopters, helicopter aerodynamics, engine installation and controls, fuel and oil systems, power transmission system, main rotor head and blades, anti-torque system, vibrations and control forces, stabilizer bar and damper, electrical systems, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 4 semester hours in helicopter maintenance (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (6/74).

AR-1704-0085

Nike Hercules Missile Mechanical Materiel Maintenance Transition

Course Number: 44-R-F8.

Location: Air Defense School, Ft. Bliss, TX.

Length: 3-5 weeks (99-140 hours).

Exhibit Dates: 11/57-12/68.

Objectives: To train enlisted Nike Ajax personnel to assemble, adjust, and maintain hydraulic missile control systems and related test equipment on the Nike Hercules missile.

Instruction: Lectures and practical exercises in Nike Hercules missile system assembly, adjustment, and maintenance, including missile mechanics, launcher area equipment operation, missile preparation and depreparation, propulsion system familiarization, and hydraulic power unit and control system operation and maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in hydraulic laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in missile mechanics (3/74); in the upper-division baccalaureate category, credit in hydraulic laboratory on the basis of institutional examination (3/74).

AR-1704-0086

1. Nike Mechanical Repair
   (Nike Mechanical Systems Repair (Ajax/Hercules))
2. SAM Mechanical Systems Repair

Course Number: *Version 1:* 9-S-433.1. *Version 2:* 9-E-67.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 8-9 weeks (280-334 hours). *Version 2:* 6 weeks (190-210 hours).

Exhibit Dates: *Version 1:* 5/57-12/68. *Version 2:* 12/55-4/57.

Objectives: To train enlisted and civilian personnel as mechanical repairmen (Nike).

Instruction: Lectures and practical exercises in inspection, testing, field maintenance, and repair of Nike Hercules/Ajax missile mechanical systems, airframes, ground-handling equipment and associated test equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in missile systems maintenance shop (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in missile systems maintenance shop (6/74). *Version 2:* In the vocational certificate category, 2 semester hours in missile systems maintenance shop (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in missile systems maintenance shop (6/74).

AR-1704-0087

Martin-Baker J-5 Ejection Seat Specialist

Course Number: 600-F6.

Location: Transportation School, Ft. Eustis, VA.

Length: 4 weeks (128 hours).
Exhibit Dates: 7/67–Present.
Objectives: To train personnel with previous technical experience to perform as J-5 ejection seat specialists.
Instruction: Lectures and practical exercises on the inspection, repair, and organizational and support maintenance of Martin-Baker J-5 ejection seats, aircraft survival seat kits, and 9E2A ejection seat simulators, including introduction to Martin-Baker ejection seats; ejection seat removal, disassembly, inspection, maintenance, and reassembly; personnel parachutes; OV-1 aircraft survival seat kits; SEEK-2 life vest, physiological effects; fitting and adjusting personal equipment; introduction to the 9E2A ejection seat simulators; and function of related systems.
Credit Recommendation: Credit is not recommended because of the technical nature of the course (12/68).
Related Occupation Codes: 67K.

AR-1704-0088

HAWK MECHANICAL REPAIR

Course Number: 632-435.1; 9-S-435.1.
Location: Ordnance Guided Missile School, Redstone Arsenal, AL.
Length: 8 weeks (281–298 hours).
Exhibit Dates: 4/59–12/68.
Objectives: To train enlisted and civilian personnel to operate, repair, and troubleshoot Hawk missile systems.
Instruction: Lectures and practical exercises in repair and maintenance of Hawk Missile systems. Course includes blueprint interpretation, hydraulic and pneumatic principles, and troubleshooting of Hawk hydraulic and pneumatic systems.
Credit Recommendation: In the vocational certificate category, 4 semester hours in mechanical engineering laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical engineering laboratory (6/74).

AR-1704-0089

BALLISTIC MISSILES PROPULSION AND STRUCTURES REPAIR

Course Number: 9-S-372.1; 9-R-372.1; 9-R-372.10.
Location: Ordnance Guided Missile School, Redstone Arsenal, AL.
Length: 10–15 weeks (345–561 hours).
Exhibit Dates: 1/58–12/68.
Objectives: To train enlisted personnel to operate, inspect, test, maintain, and repair ballistic missile propulsion and structure systems and associated test equipment.
Instruction: Lectures and practical exercises in the operation, repair, and maintenance of ballistic missile propulsion and structure systems. Course includes propulsion systems, ordnance inspection procedures, missile handling and fuel equipment, electrical fundamentals, and mechanical fundamentals.
Credit Recommendation: In the vocational certificate category, 3 semester hours as a technical elective (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as a technical elective (7/74).

AR-1704-0090

AIRCRAFT TURBINE MULTI-ENGINE REPAIR

Course Number: 601-68B30.
Location: Transportation School, Ft. Eustis, VA.
Length: 5 weeks (161 hours).
Exhibit Dates: 6/74–Present.
Objectives: To train enlisted personnel in support maintenance of turbine engines installed on multi-engine aircraft.
Instruction: Lecutres and practical exercises in inspection techniques, limited allowable repairs, recognition of malfunctions, and diagnosis of remedial action.
Credit Recommendation: In the vocational certificate category, 2 semester hours in turbine engine repair (6/75).

AR-1704-0091

ORGANIZATIONAL MAINTENANCE OFFICER

Course Number: 1-A-F13.
Location: Aviation School, Ft. Rucker, AL.
Length: 10 weeks (367 hours).
Exhibit Dates: 11/56–12/68.
Objectives: To train officers to supervise all phases of aircraft maintenance.
Instruction: Conferences and practical exercises in aircraft forms and reports, technical orders, supply, fixed-wing and rotary-wing aerodynamics, instruments, special tools, ground handling, aircraft engines, propellors, organizational maintenance and repair, inspection, and aircraft accidents.
Credit Recommendation: In the vocational certificate category, 7 semester hours in organizational maintenance (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in organizational maintenance (2/74).

AR-1704-0092

ADVANCED AIR DROP EQUIPMENT MAINTENANCE

Course Number: 10-R-F16.
Location: Quartermaster School, Ft. Lee, VA.
Length: 6 weeks (210 hours).
Exhibit Dates: 7/62–12/68.
Objectives: To provide enlisted personnel with a working knowledge of the maintenance of air drop equipment at the organizational, field, and depot levels.
Instruction: Lectures and practical exercises in pattern making and blueprint reading; maintenance of sewing machines; canopy darning, patching, and section replacement; suspension line replacement and repair; air drop equipment repair techniques; hardware, slide fasteners, and platform repair.
Credit Recommendation: In the vocational certificate category, 5 semester hours in air drop equipment repair (5/74).

AR-1706-0001

REPRODUCTION EQUIPMENT REPAIR

Course Number: 690-41K20.
Location: Engineer School, Ft. Belvoir, VA.
Length: 14 weeks (514 hours).
Exhibit Dates: 4/66–5/72.
Objectives: To train enlisted personnel to repair major reproduction equipment, including copy camera, specific offset presses and bindery equipment.
Instruction: Lectures and practical exercises in the repair of reproduction equipment. Course includes parts orientation; introduction to electricity; introduction to copy camera (24 X 30); introduction to plate-making equipment; and introduction to offset press (ATF Chief 29 DP).
Credit Recommendation: In the vocational certificate category, 3 semester hours in graphic arts (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in graphic arts (7/74); in the upper-division baccalaureate category, 3 semester hours in graphic arts (7/74).
Related Occupation Codes: 41K.

AR-1706-0002

MECHANICAL MAINTENANCE (MM-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: 6-MM-C40B.
Location: Quartermaster School, Ft. Lee, VA.
Length: 10 weeks (335 hours).
Exhibit Dates: 3/72–Present.
Objectives: To qualify enlisted personnel as noncommissioned officers, supervising the repair of office machines.
Instruction: Lectures and practical exercises in the repair of office machinery. Subject matter includes techniques of leadership, supply and maintenance procedures, and business machine repair techniques.
Credit Recommendation: In the vocational certificate category, 3 semester hours in business machine repair technology (5/74).
Related Occupation Codes: 41J.

AR-1706-0003

OFFICE MACHINE REPAIR

Course Number: *Version 1:* 670-41J20. *Version 2:* 670-41J20; 670-465.1. *Version 3:* 670-465;1 10-R-465;1 10-R-463.2. *All Versions:* 10-E-8.
Location: Quartermaster School, Ft. Lee, VA.
Length: *Version 1:* 21 weeks (664–666 hours). *Version 2:* 26 weeks (791–906 hours). *Version 3:* 26 weeks (904–910 hours).
Exhibit Dates: *Version 1:* 5/73–Present. *Version 2:* 5/65–4/73. *Version 3:* 3/56–4/65.
Objectives: To train enlisted personnel to repair and adjust typewriters, adding machines, calculators, and duplicating machines.
Instruction: Lectures and practical exercises in repair and adjustment of typewriters, adding machines, calculators, and duplicating machines, including parts analysis, maintenance and troubleshooting of specific types and makes of office equipment.
Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in typewriter repair, and 5 in calculator repair (5/74); in the lower-division baccalaureate/associate degree category, 9 semester hours in business machine technology (5/74). *Version 2:* In the vocational certificate category, 8 semester hours in typewriter repair, and 5 in calculator repair (5/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in business machine technology (5/74). *Version 3:* In the vocational certificate category, 11 semester hours in typewriter repair, 6 in calculator repair, and 1 in duplicator repair (5/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in business machine technology (5/74).
Related Occupation Codes: 41J.

AR-1706-0004

TABULATING EQUIPMENT REPAIR
(Electrical Accounting Machine Repair)

Course Number: 150-34B20; 11-R-302.1.
Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.
Length: 22–36 weeks (811–1352 hours).
Exhibit Dates: 6/62–Present.
Objectives: To train enlisted personnel as electrical accounting and tabulating machines and automatic data processing system auxiliary equipment repairmen.

Instruction: Lectures and practical exercises in electrical accounting machine repair, including supply procedures and catalogs; electrical fundamentals; functional units of EAM; key punching and verifying; specific transceiver system; interpreting; reproducing; specific accounting; card processor; PCM sorting; and collating equipment. Course currently emphasizes card punches and card verifiers, alphameric collator, card transmission terminal and card sorting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electricity, 4 in electrical laboratory, and 10 in accounting machines (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electrical laboratory, and 2 in basic electricity on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 4 semester hours in electrical laboratory, and 2 in basic electricity on the basis of institutional evaluation (6/74).

Related Occupation Codes: 34B.

AR-1706-0005

TABULAR EQUIPMENT REPAIR BY CORRESPONDENCE

Course Number: J29.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide a working knowledge of the techniques and skills required to inspect, test, adjust and repair tabulating equipment.

Instruction: To give instruction in fundamental electricity and electronic concepts as they apply to tabular equipment. Theory of electron tubes and their applications in basic electronic circuits as well as semiconductor devices and their applications to electronic circuits are covered. Digital electronic fundamentals and the introduction to computer programming is presented. The use and operation of various pieces of test equipment is presented.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in electronic theory and application, 1 in operation and use of test equipment (9/79). Credit recommended is based on completion of proctored end-of-course examination.

Related Occupation Codes: 34B.

AR-1708-0001

WATERCRAFT OPERATOR SPECIALIST CANDIDATE

Course Number: 062-61B30-1.

Location: Transportation School, Ft. Eustis, VA.

Length: 12 weeks (500 hours).

Exhibit Dates: 11/70–Present.

Objectives: To teach selected enlisted personnel already qualified as watercraft operators to perform as senior supervisors in watercraft operations.

Instruction: Consists of classes in leadership; personnel administration and duties; communications; ship handling; safety at sea; and care and maintenance of vessel.

Credit Recommendation: In the vocational certificate category, 6 semester hours in transportation and watercraft operations (2/74).

Related Occupation Codes: 61B.

AR-1708-0002

SEAMAN COURSE

Course Number: 062-61A10.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (106–111 hours).

Exhibit Dates: 6/71–Present.

Objectives: To train enlisted personnel to perform as seamen.

Instruction: Lectures and practical exercises in the duties of a seaman, including marine terminology, rigging, emergency drills, water safety, watch standing, deck equipment, vessel deck operations, shipboard customs, U.S. Army vessels, hand and power tools, painting, fire fighting, operational maintenance, and fundamentals of internal defense and internal development training.

Credit Recommendation: In the vocational certificate category, 3 semester hours in seamanship (6/74).

Related Occupation Codes: 61A; 61B; 61C.

AR-1708-0003

POLAR NAVIGATION

Course Number: 55-B-F9.

Location: Transportation School, Ft. Eustis, VA.

Length: 9 weeks (315–332 hours).

Exhibit Dates: 4/58–12/68.

Objectives: To train commissioned and warrant officers in the fundamentals of terrestrial and celestial polar navigation.

Instruction: Lectures and practical exercises in polar navigation, including capabilities and limitations of personnel, arctic survival, navigational instruments, celestial navigation, mathematics, charts, projections and maps, communication and signals, courses and bearings, weather principles, special subjects, surveying, survival tactics, and map and aerial photograph reading.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in navigation or general science (5/74); in the upper-division baccalaureate category, 6 semester hours in navigation (12/68).

AR-1708-0004

SEAMAN

Course Number: 813-5600; 55-R-560.0; 55-E-51.

Location: Transportation School, Ft. Eustis, VA.

Length: 6–10 weeks (213–350 hours).

Exhibit Dates: 8/55–12/68.

Objectives: To train enlisted personnel to assist in the operation, maintenance, and repair of all types of harbor craft, landing craft, and floating equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of all types of harbor craft, landing craft, and floating equipment, including piloting, marine engine theory, survival techniques, small boats, cargo operations, basic seamanship and crew duties, international Morse code, navigational aids and charts, and engine diagnosis and troubleshooting procedures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/74).

AR-1709-0001

STILL PHOTOGRAPHY

Course Number: 400-84B20; 11-R-841.1; 11-E-7.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12–13 weeks (432–478 hours).

Exhibit Dates: 3/57–Present.

Objectives: To provide enlisted personnel with a working knowledge of the techniques required to take existing-light and flash, and black and white and color photographs of ground and aerial subjects for technical, tactical, and information purposes; and to provide basic darkroom instruction to students with limited experience.

Instruction: Lectures and appropriate practical experiences in basic photography (camera, lens, exposure meter, film processing, contact printing and composition); flash photography (bulb and electronic); military news and information photography (35mm and press-type cameras); tactical air and ground photography; 35mm camera instruction (photo copying included); color slide instruction.

Credit Recommendation: In the vocational certificate category, 3 semester hours in photography (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in photography on the basis of portfolio review (12/73); in the upper-division baccalaureate category, 3 semester hours in photography (12/68).

Related Occupation Codes: 84B.

AR-1709-0002

PHOTOGRAPHIC LABORATORY OPERATION

Course Number: 400-84G20; 11-R-843.1; 11-R-840.0; 11-E-20.

Location: Signal School, Ft. Monmouth, NJ.

Length: 10–15 weeks (356–554 hours).

Exhibit Dates: 10/55–Present.

Objectives: To train enlisted personnel in the principles and techniques of photographic processing as required to produce negatives and prints from film shot for technical, tactical, or public relations purposes.

Instruction: Laboratory experience in processing black and white negatives, in making contact and projection prints; experience in mounting and processing projection slides; aerial and ground reconnaissance strip processing; assembly processing motion picture film; physics and chemistry of processing; quality control of color printing.

Credit Recommendation: In the vocational certificate category, 3 semester hours in photographic laboratory (12/73); in the upper-division baccalaureate category, 5 semester hours in photographic laboratory (12/68).

Related Occupation Codes: 84G.

AR-1709-0003

PROCESS PHOTOGRAPHY

Course Number: 740-83D20; 740-833.1; 5-E-52.

Location: Engineer School, Ft. Belvoir, VA.

Length: 7–9 weeks (304–360 hours).

Exhibit Dates: 2/56–Present.

Objectives: To provide selected enlisted personnel with a working knowledge of the basic skills of copy camera operation, with emphasis on line copying and halftone screening.

Instruction: Copy camera operation; film processing; exposure determination; line copying techniques; photographic filters; continuous tone copying; halftone screening with the halftone-magenta contact screen.

Credit Recommendation: In the vocational certificate category, 3 semester hours in graphic arts (12/73).

Related Occupation Codes: 82D; 83Z.

AR-1709-0004

MOTION PICTURE PHOTOGRAPHY

Course Number: 400-84C20; 11-R-841.2; 11-E-3.

Location: Signal School, Ft. Monmouth, NJ.

Length: 14 weeks (616 hours).

Exhibit Dates: 11/55-Present.

Objectives: To train enlisted personnel in motion picture photography, including camera operation, film exposure and processing, image composition, screen direction, film editing, and basic sound techniques.

Instruction: Basic studies in the principles of camera operation, shutter and lens settings, tripod and hand-held filming, use of wide angle and telephoto lenses, framing and composition, use of filters, and film processing; controlled and uncontrolled experiences with applications of interior lighting techniques, tactical air cinematography, color filming, single/double system sound, silent and sound film editing, and television applications; operation of the Arriflex, Magnasync recording system, quarter-inch tape systems; assignments in news filming and multimedia presentations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in photography (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in photography (12/73); in the upper-division baccalaureate category, 3 semester hours in photography (12/68).

Related Occupation Codes: 84C; 84B; 84G.

AR-1709-0005

INTELLIGENCE PHOTOGRAPHY

Course Number: 3A-F3; 244-F3.

Location: Intelligence School, Ft. Huachuca, AZ; Intelligence School, Ft. Holabird, MD.

Length: 8-9 weeks (244-271 hours).

Exhibit Dates: 9/66-1/79.

Objectives: To provide selected intelligence personnel with a working knowledge of the theory, techniques, and applications of photography in the intelligence field.

Instruction: Camera lens and shutter relationships; depth of field; exposure, filters, flash, polaroid photography; the rangefinder camera; single-lens-reflex cameras; subminiature photography; photo chemicals; sheet, miniature, and subminiature film development; contact and projection printing; photographic maintenance; infrared and ultraviolet photography; composition; theory of color; color chemicals; negative and positive color processing; color printing and slide duplication.

Credit Recommendation: in the lower-division baccalaureate/associate degree category, 3 semester hours in basic photography (6/79); in the upper-division baccalaureate category, 3 semester hours in photography (6/79).

AR-1709-0006

1. PICTORIAL UNIT COMMANDER AND MOTION PICTURE AND TELEVISION DIRECTOR
2. PICTORIAL UNIT COMMANDER (Photographic Unit Commander)

Course Number: *Version 1:* 7F-8500; 7F-8511; 4C-8500; 4C-8511. *Version 2:* 11-A-8500; 11-O-39.

Location: Signal School, Ft. Monmouth, NJ.

Length: 9 weeks (356-360 hours); 10 weeks (354-360 hours).

Exhibit Dates: *Version 1:* 2/67-Present. *Version 2:* 8/55-1/67.

Objectives: To train commissioned officers to direct, administer, and supervise still and motion-picture photographic, audio-visual, and television activities.

Instruction: Lectures and practical exercises in supervision of still and motion-picture activities. Course includes still photography, and laboratory practices and supervision (camera operation, film development, contact and projection printing, photo laboratory operation, aerial photography, and color processing and printing); motion-picture photography, and laboratory practices and supervision (camera operation, exposure, editing, production techniques, operation of 16mm sound camera, evaluation); tape recorder operation; and television production techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in photography or audio-visual aids on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in photography or audio-visual aids on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 12 semester hours in photography (12/68). *Version 2:* In the vocational certificate category, 2 semester hours in photography or audio-visual aids on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in photography or audio-visual aids on the basis of institutional evaluation (7/74).

AR-1709-0007

PHOTOGRAMMETRIC COMPILATION

Course Number: 411-81D30.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (370-378 hours).

Exhibit Dates: 3/67-5/71.

Objectives: To train enlisted personnel in the principles and techniques of photogrammetric map compiling.

Instruction: Lectures and practical exercises in the principles and techniques of photogrammetric map compiling. Course includes the principles, operation, and application of multiplex equipment, the high-precision stereoplotter, and photogrammetric problem solving.

Credit Recommendation: In the vocational certificate category, 3 semester hours in photogrammetry on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in photogrammetry on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 3 semester hours in photogrammetry (12/68).

Related Occupation Codes: 81D.

AR-1709-0008

IMAGE INTERPRETATION OFFICER (Photointerpretation Officer)

Course Number: 30-A-8503.

Location: Intelligence School, Ft. Holabird, MD.

Length: 19-24 weeks (665-804 hours).

Exhibit Dates: 7/57-12/68.

Objectives: To train commissioned officers to perform tactical air photo interpretation.

Instruction: Lectures and practical exercises in the techniques and principles of air photo interpretation. Course includes relationships between intelligence and photo interpretation; specialized photo interpretation techniques and procedures, such as stereography, negative transparency interpretation, color photography, geometry of vertical photographic images, photo interpretation keys, identification of civilian and military objects and activities, small-scale photography, long-focal-length photography, and infrared and electronics interpretation; photogrammetry instruction includes basic mensuration techniques dealing with oblique images, scales, and dimensions; mechanics instruction includes flight planning, grids, stereocomparagraphs, restitution, rectification, plotting, and mosaics; terrain instruction includes recognition and analysis of ground conditions, including areas of military and civilian interest.

Credit Recommendation: In the upper-division baccalaureate category, 5 semester hours in photographic interpretation (12/68).

AR-1709-0009

FORENSIC PHOTOGRAPHER (Photographic Evidence Technician)

Course Number: None.

Location: Criminal Investigation Laboratory, Ft. Gordon, GA.

Length: 104 weeks (3528 hours).

Exhibit Dates: 3/72-Present.

Objectives: To qualify personnel as forensic photographers and as expert witnesses in forensic photography in judicial proceedings.

Instruction: Topics include history and principles of photography optics and the nature of light, cameras and related photographic equipment, sentized photographic materials, exposure and lighting techniques, flash and strobe photography, filters, photographic processing and printing, densitometry and quality control systems, color photography, police photography and the forensic science laboratory, firearms, fingerprint, document and crime scene photography, utlraviolet and infrared photography, photomacrography, photomicrography, legal considerations involving photography, detection of retouching of negatives and prints, masking and internegative procedures, production and reproduction of transparencies, advanced camera techniques, darkroom planning and management.

Credit Recommendation: In the vocational certificate category, 30 semester hours in forensic photography (4/78); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic forensic science, 6 in basic photography, 6 in police photography, 3 in automated processing equipment, 3 in color photography, and 6 in criminal investigations, for a total of 30 semester hours (4/78); in the upper-division baccalaureate category, 3 semester hours in forensic science, 6 in photomacrography and photomicrography, and 0-3, for the research work based on the receiving institution's review of the student's project (4/78); in the graduate degree category, 0-9 semester hours based on the student's research project to be assigned by the receiving institution. Credit is expressed as a range because of the highly individualized study and the practical applied experience required (4/78).

Related Occupation Codes: 951A.

AR-1709-0010

Aerial Sensor Specialist Entry Level

Course Number: 221-96H10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 10 weeks (371–372 hours).

Exhibit Dates: 4/79–Present.

Objectives: To train enlisted military personnel in operation and maintenance of an aerial sensing system.

Instruction: Lectures and practical application in the operation and maintenance of an aerial sensing system.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in aerial navigation, 3 in aerial photography (6/79).

Related Occupation Codes: 96H.

AR-1710-0001

1. Marine Engineer
2. Marine Engine Operation and Maintenance
3. Marine Engine Operation and Maintenance

Course Number: *Version 1:* 652-61C20. *Version 2:* 652-61C20. *Version 3:* 55-R-565;1 55-E-10.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 6–7 weeks (215–245 hours). *Version 2:* 5 weeks (184 hours). *Version 3:* 7–9 weeks (245–311 hours).

Exhibit Dates: *Version 1:* 9/69–Present. *Version 2:* 11/66–8/69. *Version 3:* 8/55–10/66.

Objectives: To train enlisted personnel to maintain diesel engines, fuel injection systems, outboard motors, and marine electrical systems.

Instruction: *All Versions:* Lectures and practical experience in the operation and maintenance of internal-combustion engines, pumps, air compressors, governors, and lubricating, cooling, hydraulics, fuel injection, and electrical systems. *Version 1:* Instruction includes outboard motor maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in marine technology, diesel technology, or heavy equipment repair (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in marine technology, diesel technology, or heavy equipment repair (4/74). *Version 2:* In the vocational certificate category, 3 semester hours in marine technology, diesel technology, or heavy equipment repair (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in marine technology, diesel technology, or heavy equipment repair (4/74). *Version 3:* In the vocational certificate category, 4 semester hours in marine technology, diesel technology, or heavy equipment repair (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in marine technology, diesel technology, or heavy equipment repair (4/74).

Related Occupation Codes: 61A; 61C.

AR-1710-0002

Surfacing Machine Operation
(Surfacing Machine Operator)

Course Number: 5-E-55.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (359 hours).

Exhibit Dates: 9/55–12/68.

Objectives: To train enlisted personnel to operate and maintain various types of asphalt and concrete mixing and surfacing equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of various types of asphalt and concrete mixing and surfacing equipment, including principles of engines, air compressors and attachments, asphalt plant operation and attachments, preparation of bituminous surfaces, concrete construction, installation of steel permanent forms, concrete pavers, mixers, spreaders, and finishers, and supervisory duties pertaining to concrete and asphalt projects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in civil technology, 10 in heavy equipment operation (4/74).

AR-1710-0003

Turret Maintenance
(Armor Turret Maintenance)

Course Number: 643-424.1; 17-R-424.1; 17-R-131.1.

Location: Armor School, Ft. Knox, KY.

Length: 10 weeks (371–378 hours).

Exhibit Dates: 9/58–12/68.

Objectives: To train enlisted personnel to perform, direct, and maintain armament installations and the mechanical, electrical, and hydraulic components of armament systems.

Instruction: Lectures and practical exercises in armament components repair, including disassembly, inspection, assembly, maintenance, turret familiarization, fire control systems, technical manuals and maintenance forms, tools care and usage, basic electricity, electronics, and hydraulics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical or industrial technology (4/74).

Related Occupation Codes: 45G; 45Z.

AR-1710-0004

Utilities Foreman

Course Number: 5-E-20.

Location: Engineer School, Ft. Belvoir, VA.

Length: 11 weeks (417 hours).

Exhibit Dates: 10/54–12/68.

Objectives: To train noncommissioned officers to supervise the installation and repair of utilities systems in military barracks, sheds, warehouses, mess halls, hospitals, and laboratories.

Instruction: Lectures and practical exercises in utility maintenance at the advanced level. Course includes the construction and repair of water supply and sewage disposal systems; waste collection and disposal; insect and rodent control; sheet metal work; plumbing; fire prevention; construction materials; operation of gasoline and diesel engines; maintenance and repairs of electrical systems; refrigeration equipment; use of construction drawings; construction planning; and maintenance and repair of building and structures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in building construction and supervision (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in building construction and supervision (6/74); in the upper-division baccalaureate category, 3 semester hours in building construction and supervision (6/74).

AR-1710-0005

Railway Section Foreman

Course Number: 55-E-33.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 7/55–12/68.

Objectives: To train enlisted personnel to supervise section gangs in the maintenance of railway tracks, roadbeds, switches, and appurtenant structures.

Instruction: Lectures and practical exercises in the supervision of railway track, roadbed, switch, and appurtenant structure maintenance, including supervisory responsibilities, railway signals, track structures, ballast, cross and switch tie maintenance, curves, turnout construction, and maintenance of way records and reports.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (4/74).

AR-1710-0006

Railway Car Repair

Course Number: 55-E-5.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 8/55–3/62.

Objectives: To train enlisted personnel to repair and overhaul passenger and freight cars.

Instruction: Lectures and practical exercises in the repair and overhaul of passenger and freight cars, including arc welding, cutting, brazing, spray and brush painting, and repair of brake components, trucks, draft gears, and couplers.

Credit Recommendation: In the vocational certificate category, 1 semester hour in welding, 7 as an elective in heavy equipment repair (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in welding, 7 as an elective in heavy equipment repair (4/74).

Related Occupation Codes: 65D.

AR-1710-0007

Railway Shop Foreman

Course Number: 55-E-34.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 1/56–12/68.

Objectives: To train enlisted personnel to supervise the repair, disassembly, inspection, and overhaul of railway equipment.

Instruction: Lectures and practical exercises in the supervision of railway equipment repair, disassembly, inspection, and overhaul, including shop operation procedures; mathematics; blueprint reading; steam locomotive running gear, boiler, and integral parts; special equipment; diesel and electric operation; and supervisory responsibilities.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (4/74).

AR-1710-0008

Steam Locomotive Repairman

Course Number: 55-E-9.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 8/55–3/62.

Objectives: To train enlisted personnel to inspect, test, repair, and maintain steam-operated locomotives, tenders, tank cars, and material constructed of heavy steel plate, and to maintain railway and similar-type boilers and railway motive-power and allied equipment.

Instruction: Lectures and practical exercises in the inspection, testing, repair, and maintenance of steam-operated locomotives, tenders, tank cars, and material constructed of heavy steel plate, and the maintenance of railway and similar-type boilers and railway motive-power and allied equipment, including welding procedures, steam engine construction, and machine shop.

Credit Recommendation: In the vocational certificate category, 1 semester hour in arc and oxyacetylene welding, 2 in introduction to machine shop, and 5 as an elective in heavy equipment repair (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in arc and oxyacetylene welding, 1 in introduction to machine shop, and 5 as an elective in heavy equipment repair (4/74).

Related Occupation Codes: 65B.

AR-1710-0009

MOBILE ELECTRIC POWER GENERATION

Course Number: 662-52B20; 662-52B30.

Location: Engineer School, Ft. Belvoir, VA.

Length: 7-10 weeks (269-351 hours).

Exhibit Dates: 5/71-Present.

Objectives: To train enlisted personnel to install, operate, and maintain portable, gasoline and diesel engine generator sets, electric arc welders, and associated equipment.

Instruction: Lectures and practical exercises in the installation, operation, and maintenance of portable, gasoline and diesel engine generator sets, electric arc welders, and associated equipment, including AC and DC power generation, basic electricity, maintenance management, various circuits, internal-combustion engine systems analysis, and mobile electric power generation systems and equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electricity, 2 in industrial electrical apprenticeship, 1 in introduction to internal-combustion engines (9/79); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity, 1 in introduction to internal-combustion engines (9/79).

Related Occupation Codes: 52B; 52C; 52D.

AR-1710-0010

MOBILE ELECTRIC POWER GENERATION (PRECISE)

Course Number: 662-52B30.

Location: Engineer School, Ft. Belvoir, VA.

Length: 2-3 weeks (86 hours).

Exhibit Dates: 1/72-7/75.

Objectives: To train power generation equipment operators and mechanics to install, operate, and maintain precise-power generators, motor generators, and associated equipment.

Instruction: Lectures and practical exercises in the installation, operation, and maintenance of precise-power generators, motor generators, and associated equipment, including power performance requirements of various generators, emergency power transfer, and maintenance of facilities.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (4/74).

Related Occupation Codes: 52B; 52C; 52D.

AR-1710-0011

AMPHIBIOUS TRUCKMASTER

Course Number: 55-R-641.6; 55-E-41.

Location: Transportation School, Ft. Eustis, VA.

Length: 15 weeks (525 hours).

Exhibit Dates: 7/55-12/68.

Objectives: To train enlisted personnel to supervise amphibious wheeled vehicle transport operations.

Instruction: Lectures and practical exercises in the supervision of amphibious wheeled vehicle transport operations, including function of an amphibious unit, field expedients, engine troubleshooting and maintenance, convoy organization, communications, nautical operations, vehicle recovery, cargo handling, and planning and control operations.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (4/74).

AR-1710-0012

MECHANICAL MAINTENANCE WARRANT OFFICER INTERMEDIATE (421A)

Course Number: 4-9-C30-A.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 16 weeks (498 hours).

Exhibit Dates: 7/72-Present.

Objectives: To train armament repair technicians to supervise general support and depot support maintenance.

Instruction: Lectures and practical exercises in the supervision of general support and depot support maintenance, including leadership and managerial studies, information systems, maintenance management studies, machine and welding operations, hydraulic principles and system components, review of electricity, various circuits, motors and generators, semiconductors and transistors, ignition systems, and armament specialty subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical or industrial technology, and 4 as an elective in business management (4/74); in the upper-division baccalaureate category, 2 semester hours as an elective in business management (4/74).

Related Occupation Codes: 421A; 441A; 630A; 631A; 632A.

AR-1710-0013

MECHANICAL MAINTENANCE WARRANT OFFICER INTERMEDIATE (441A)

Course Number: 4-9-C30-B.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 18 weeks (544 hours).

Exhibit Dates: 7/72-Present.

Objectives: To train automotive maintenance technicians to maintain and test electrical and fuel systems in automotive and support vehicles and to supervise supply maintenance functions.

Instruction: Lectures and practical exercises in leadership and management; management information systems; maintenance management; machine shop, welding, metal body works, and automotive testing equipment review; and electricity and electronics review.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in business management, 4 in mechanical technology or industrial technology, and 2 in automotive or diesel mechanics (4/74); in the upper-division baccalaureate category, 2 semester hours as an elective in business management (4/74).

Related Occupation Codes: 441A.

AR-1710-0014

MECHANICAL MAINTENANCE WARRANT OFFICER INTERMEDIATE (631A)

Course Number: 4-9-C30-D.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 17 weeks (516 hours).

Exhibit Dates: 7/72-Present.

Objectives: To train automotive maintenance technicians to maintain and test electrical and fuel systems in automotive and support vehicles and to supervise supply maintenance functions.

Instruction: Lectures and practical exercises in leadership and management; management information systems; maintenance management; machine shop, welding, metal body works, and automotive testing equipment review; and electricity and electronics review.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in business management, 4 in mechanical technology or industrial technology, and 2 as an elective in automotive technology (4/74); in the upper-division baccalaureate category, 2 semester hours as an elective in automotive technology (4/74).

Related Occupation Codes: 631A.

AR-1710-0015

QUARTERMASTER EQUIPMENT REPAIR SUPERVISION

Course Number: 10-E-31.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 6 weeks (210 hours). *Version 2:* 10 weeks (347 hours).

Exhibit Dates: *Version 1:* 4/57-12/68. *Version 2:* 1155-3/57.

Objectives: To train quartermaster equipment repairmen to supervise the repair of quartermaster mechanical equipment.

Instruction: *All Versions:* Lectures and practical exercises in the supervision of the repair of quartermaster mechanical equipment, including electrical components, internal-combustion engines, materiel-handling equipment, laundry equipment, bath units, POL equipment, bakery units, burner equipment, and special-purpose vehicles. *Version 1:* Includes supervision, leadership, and speech training. *Version 2:* Emphasizes technical subject matter.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours as an elective in industrial technology (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in supervision, and 3 semester hours as an elective in industrial technology (4/74). *Version 2:* In the vocational certificate category, 5 semester hours as an elective in industrial technology (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours as an elective in industrial technology (4/74).

AR-1710-0016

ENGINEER EQUIPMENT REPAIR

Course Number: 612-62B30; 612-622.2.

Location: Engineer School, Ft. Belvoir, VA.

Length: 9 weeks (281-342 hours).

Exhibit Dates: 7/65-Present.

Objectives: To train engineer equipment mechanics to repair engineer construction, earth-moving, and support-type equipment and powered bridging equipment.

Instruction: Lectures and practical exercises in the repair of engineer construction, earth-moving, and support-type equipment and powered bridging equipment, including operation, construction, troubleshooting, and overhaul of 2- and 4-cycle diesel engines; repair of power trains, hydraulic systems, brakes, various parts of heavy construction equipment, operation of air compressors, hydraulic systems, and equipment components.

Credit Recommendation: In the vocational certificate category, 2 semester hours in diesel engine technology, 2 in heavy equipment technology, 1 in automotive power trains (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engine technology, 2 in heavy equipment technology, 1 in automotive power trains (4/74).

Related Occupation Codes: 62B.

AR-1710-0017

ANTIAIRCRAFT ARTILLERY REPAIR

Course Number: 9-R-423.1; 9-E-77.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 7 weeks (245–342 hours).

Exhibit Dates: 5/56–12/68.

Objectives: To train enlisted personnel to repair and rebuild antiaircraft artillery equipment.

Instruction: Lectures and practical exercises in the repair and rebuilding of light, medium, and heavy antiaircraft artillery weapons, including equipment maintenance and operation of specific machine gun mounts and artillery weapons.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/74).

AR-1710-0018

TANK TURRET REPAIR

(Turret Artillery Repair)

Course Number: *Version 1:* 643-45K20. *Version 2:* 643-45K20. *Version 3:* 643-45K30; 643-45G30; 9-R-424;1 9-E-31.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 16 weeks (536 hours). *Version 2:* 15 weeks (489 hours). *Version 3:* 9–11 weeks (318–385 hours).

Exhibit Dates: *Version 1:* 7/76–Present. *Version 2:* 4/74–6/76. *Version 3:* 5/56–3/74.

Objectives: To train enlisted personnel to evaluate and repair tank turret systems.

Instruction: *Version 1:* Lectures and practical experience in the evaluation and repair of mechanical, electrical, electronic and hydraulic systems on tank turrets and cupolas including the breech mechanism and firing components. *Version 2:* Lectures and practical exercises in the maintenance of the mechanical, electrical, electronic, and hydraulic components and systems of the armament installed in tank turrets, armored reconnaissance vehicles, and cupolas mounted on armored personnel carriers, including basic electricity and electronics, hydraulics, and disassembly, inspection, and assembly procedures for armament components.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical, electrical/electronic systems (1/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in tools, measuring devices, and instrumentation (6/75). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical or industrial technology (4/74).

Related Occupation Codes: 45K; 09B.

AR-1710-0019

QUARTERMASTER EQUIPMENT REPAIR

Course Number: 10-R-463.1; 10-E-32.

Location: Quartermaster School, Ft. Lee, VA.

Length: 14 weeks (490 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train enlisted personnel to install, adjust, and repair quartermaster equipment.

Instruction: Lectures and practical exercises in basic electricity, including parallel and series circuits, Ohm's law, control devices, test equipment, electrical motors, generators, and batteries; brazing, carpentry, and pipe fitting; fork lift operation and repair; laundry and bakery equipment; fuel storage and handling; and minor maintenance and troubleshooting of internal-combustion engines.

Credit Recommendation: In the vocational certificate category, 1 semester hour in introduction to internal-combustion engines (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to internal-combustion engines, and 7 as an elective in industrial or mechanical technology (4/74).

AR-1710-0020

TANK TURRET MECHANIC

Course Number: *Version 1:* 643-45N10. *Version 2:* 643-45N20.

Location: Armor School, Ft. Knox, KY.

Length: 8–9 weeks (286–288 hours).

Exhibit Dates: *Version 1:* 4/76–Present. *Version 2:* 4/73–3/76.

Objectives: To train enlisted personnel to operate and maintain the mechanical, electrical, and hydraulic components of a tank turret system.

Instruction: *All Versions:* Lectures and practical exercises in tank turret system operation and maintenance, including armament component repair, disassembly, inspection, maintenance procedures, assembly, safety procedures, basic electricity and hydraulics, and maintenance of armament for tanks. *Version 1:* Greater emphasis is placed on electrical technology.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in electrical technology, 3 as an elective in mechanical or industrial technology (2/80). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical or industrial technology (4/74).

Related Occupation Codes: 45N; 09B.

AR-1710-0021

MECHANICAL MAINTENANCE (MM-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC

(Electrical Equipment Maintenance (63-CMF) NCO Basic)

(Electric Power Production (52-CMF) NCO Basic)

(Electric/Electronic Devices Maintenance (35-CMF) NCO Basic)

Course Number: 6-634-C40; 7-521-C40; 1-352-C40; 6-MM-C40; 6-MM-C40C.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 6–7 weeks (174–207 hours). *Version 2:* 12 weeks (379–384 hours).

Exhibit Dates: *Version 1:* 8/75–5/78. *Version 2:* 6/72–7/75.

Objectives: To train power generator equipment repairmen, engineer equipment repairmen, and engineer specialists to supervise the repair and maintenance of mechanical equipment.

Instruction: Lectures and practical exercises in the supervision of mechanical equipment repair and maintenance, including hydraulics, diagnostic techniques, repair of air compressors and electrical generators, management, electricity, gasoline and diesel engines, equipment systems and component repair, and options in missiles, power generation, or construction equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in mechanical maintenance supervision (12/78). *Version 2:* In the vocational certificate category, 7 semester hours as an elective in mechanical or industrial technology (4/74); in the lower-division baccalaureate/associate degree category, 7 semester hours as an elective in mechanical or industrial technology (4/74).

Related Occupation Codes: 52B; 52C; 52D; 52E; 62B; 62C; 35E.

AR-1710-0022

QUARTERMASTER HEAVY EQUIPMENT REPAIRMAN

(Quartermaster Heavy Equipment Repair)

Course Number: 690-63K20; 690-467.1; 10-R-467.1.

Location: *Version 1:* Ordnance School, Aberdeen Proving Ground, MD. *Version 2:* Ordnance School, Aberdeen Proving Ground, MD; Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 8 weeks (242 hours). *Version 2:* 10–13 weeks (350–476 hours).

Exhibit Dates: *Version 1:* 4/74–4/77. *Version 2:* 9/59–3/74.

Objectives: To train enlisted personnel to install, adjust, and repair quartermaster materials-handling equipment and special-purpose vehicles and equipment.

Instruction: Lectures and practical exercises in the installation, adjustment, and repair of quartermaster materials-handling equipment and special-purpose vehicles and equipment, including basic industrial electricity principles, circuit tracing, troubleshooting and maintenance of electrical equipment and motors, internal-combustion engine systems and components, and mobile equipment operation and maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in heavy equipment maintenance (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment maintenance (6/75). *Version 2:* In the vocational certificate category, 2 semester hours in electricity, 2 in automotive engines, and 1 as an elective in technical equipment (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity, 2 in automotive engines, and 1 as an elective in technical equipment (4/74).

Related Occupation Codes: 62K.

AR-1710-0023

BOILERMAKER

Course Number: 55-E-2.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 8/55–12/68.

Objectives: To train enlisted personnel to dismantle, repair and overhaul steam boilers, fireboxes, tenders, tank cars, and other containers constructed of heavy steel plate, and to maintain railway and similar-type boilers and allied equipment.

Instruction: Lectures and practical exercises in the maintenance, overhaul and repair of railway and similar-type boilers and allied equipment, including general basic technical subjects; army supply and cost consciousness; locomotive nomenclature; boiler construction, maintenance and repair; oxyacetylene and electric arc cutting and welding; tubes and flues; stay bolts and firebox; and boiler inspection.

Credit Recommendation: In the vocational certificate category, 6 semester hours in boilermaking, stationary engineer or power plant (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in boilermaking, stationary engineer or power plant (5/74); in the upper-division baccalaureate category, 2 semester hours in boilermaking, stationary engineer or power plant (5/74).

AR-1710-0024

Construction and Utilities (CU-CMF) Noncommissioned Officer (NCO) Basic
(General Engineering (51-CMF) NCO Basic)
(Special-Assignment (00-CMF) NCO Basic)

Course Number: 7-51-C40; 7-000 C40.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 8–9 weeks (258–307 hours). *Version 2:* 12 weeks (378–394 hours).

Exhibit Dates: *Version 1:* 10/75–5/78. *Version 2:* 9/72–9/75.

Objectives: To train noncommissioned officers and enlisted personnel in basic engineering construction.

Instruction: Lectures and practical exercises in engineering construction, including communications, maintenance management, map reading, generator operation, building construction, construction management, soil mechanics, concrete, construction equipment, electrical distribution systems, air conditioning, construction surveying, and field problems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in construction foremanship (12/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 9 semester hours in construction engineering and management (5/74); in the upper-division baccalaureate category, 6 semester hours in construction engineering and management (5/74).

Related Occupation Codes: 51B; 51C; 51D; 51E; 51F; 51J; 51K; 51L; 51N; 51R; 52E; 53B; 53C; 62D; 62E; 62F; 62G; 62H; 62J; 62K; 62L; 62M; 81B; 82B; 51G; 57D.

AR-1710-0025

Construction Foreman NCO Candidate

Course Number: 710-51H40.

Location: Training Center, Ft. Leonard Wood, MO.

Length: 21 weeks (630 hours).

Exhibit Dates: 1/71–Present.

Objectives: To train noncommissioned officers to be construction foremen.

Instruction: Lectures and practical exercises in construction supervision, including map reading; methods of instruction; mathematics; carpentry, masonry, plumbing, and sheet metal work; electrical techniques; rigging; construction surveys, drawings, and management procedures; soils and geology; road and airfield construction; flexible pavements and concrete; fixed bridges and classifications; buildings and construction; engineering equipment utilization and maintenance; explosives and demolitions; and supply procedures.

Credit Recommendation: In the vocational certificate category, 10 semester hours in general construction (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in general construction (5/74); in the upper-division baccalaureate category, 6 semester hours in general construction (5/74).

Related Occupation Codes: 41H.

AR-1710-0026

Construction and Utilities (CU-CMF) NCO Advanced

Course Number: 7-CU-C42.

Location: Engineer School, Ft. Belvoir, VA.

Length: 12 weeks (379 hours).

Exhibit Dates: 7/72–Present.

Objectives: To provide noncommissioned officers with advanced training in construction and utilities.

Instruction: Lectures and practical exercises in construction and utilities, including military justice and discipline, mathematics, leadership and management, unit administration, maintenance management, field engineering, bivouac area, mine warfare, combat operations, combat support, electives, foundation and materials, flexible pavements, fixed bridges, engineering design, T/O structures, and construction management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in construction engineering (5/74); in the upper-division baccalaureate category, 3 semester hours in construction engineering (12/68).

Related Occupation Codes: 51E; 51F; 51H; 51M; 51N; 51P; 51R; 52E; 53B; 53C; 57D; 62D; 62G; 62H; 62J; 62N; 82B.

AR-1710-0027

1. Welding
2. Welding
3. Welding
4. Welding
(Welder-Blacksmith)

Course Number: *Version 1:* 701-44C20. *Version 2:* 701-44C20. *Version 3:* 701-44C20; 9-R-442.1. *Version 4:* 9-R-442;1 9-E-5.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 11 weeks (336 hours). *Version 2:* 12 weeks (380–432 hours). *Version 3:* 11 weeks (389–434 hours). *Version 4:* 8 weeks (280–304 hours).

Exhibit Dates: *Version 1:* 3/75–12/75. *Version 2:* 3/71–2/75. *Version 3:* 4/58–2/71. *Version 4:* 6/56–3/58.

Objectives: To train enlisted personnel to weld ferrous and nonferrous metals and to perform soldering, brazing, and cutting operations for repair and maintenance of military equipment.

Instruction: *All Versions:* Lectures and practical exercises in welding, soldering, brazing, and cutting operations in various positions using several metals, including oxyacetylene welding principles and operations, properties and identification of metals, electric arc welding procedures, and interpretation of drawings and use of tools. *Version 1:* Does not include Tungsten Inert Gas (TIG) welding. *Version 2:* Includes inert-gas welding. *Version 3:* Includes inert-gas welding and mathematics. *Version 4:* Includes blacksmithing principles, techniques, and applications.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in welding technology (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in welding technology (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in welding technology (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in welding technology (5/74); in the upper-division baccalaureate category, 2 semester hours in welding technology (5/74). *Version 3:* In the vocational certificate category, 3 semester hours in welding (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in welding (5/74). *Version 4:* In the vocational certificate category, 3 semester hours in welding or blacksmithing (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in welding or blacksmithing (5/74).

Related Occupation Codes: 44C; 44Z.

AR-1710-0028

Artillery Repair

Course Number: 642-45L20.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 8–11 weeks (252–356 hours). *Version 2:* 13 weeks (414–468 hours).

Exhibit Dates: *Version 1:* 2/75–3/77. *Version 2:* 4/71–1/75.

Objectives: To train enlisted personnel to maintain artillery.

Instruction: Lectures and practical exercises in self-propelled artillery, rocket launchers, and light air defense artillery and related materials maintenance, including assembly, disassembly, and maintenance procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours as an elective in mechanical or electrical technology (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in mechanical or electrical technology (6/75). *Version 2:* In the vocational certificate category, 4 semester hours as an elective in heavy equipment repair (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in heavy equipment repair (7/74).

Related Occupation Codes: 45L.

AR-1710-0029

Engineer Equipment Maintenance

Course Number: 612-62B20; 612-622.1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10–11 weeks (367–432 hours).

Exhibit Dates: 12/65–Present.

Objectives: To train enlisted personnel to perform as engineer equipment repairmen.

Instruction: Lectures and practical exercises in the maintenance of engineer construction, earth-moving and support-type equipment, and powered bridging equipment; equipment operation; electrical fundamentals; internal combustion engine systems maintenance; diesel engine maintenance; power trains, systems, and components; troubleshooting and component removal; air compressors; welding; hydraulic systems; boat and bridge erection; organizational maintenance; and equipment troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in power trains laboratory, 2 in power plants laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in power trains laboratory, 2 in power plants laboratory (7/74).

Related Occupation Codes: 62B.

AR-1710-0030

Structures Specialist

Course Number: 710-51C10.

Location: Ft. Leonard Wood, MO, 33/78.

Length: 229 weeks (33/78 hours).

Exhibit Dates: Present–7.

Objectives: To train enlisted personnel to assist in the fabrication and erection of structural assemblies.

Instruction: Conferences and practical exercises in the skills and knowledge needed to assist in the fabrication, assembly, erection, and repair of rigging devices, trusses, and other structural assemblies; installation of pipeline and sheet metal items.

Credit Recommendation: In the vocational certificate category, 1 semester hour in metal fabrication, 1 in introduction to welding (9/79).

AR-1710-0031

Medium Antiaircraft Artillery Maintenance

(Medium and Heavy Antiaircraft Artillery Maintenance)

Course Number: 44-R-162.2; 44-E-19.

Location: Air Defense School, Ft. Bliss, TX; Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX; Antiaircraft and Guided Missile School, Ft. Bliss, TX.

Length: 5–6 weeks (159–210 hours).

Exhibit Dates: 4/55–12/68.

Objectives: To train enlisted personnel to maintain small arms and medium and heavy antiaircraft artillery weapons.

Instruction: Lectures and practical exercises in the maintenance of small arms and medium and heavy antiaircraft artillery weapons, including machine guns, recoil systems, fuze setter and combination fuze setter-rammer, sighting and fire control equipment, generator set operation, machine gun mounts, ammunition, and maintenance, inspection, and lubrication procedures.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

AR-1710-0032

Sheridan Turret Mechanic

Course Number: 643-45P20.

Location: Armor School, Ft. Knox, KY.

Length: 9 weeks (304 hours).

Exhibit Dates: 4/73–Present.

Objectives: To train enlisted personnel to maintain the Sheridan tank turret.

Instruction: Lectures and practical exercises in Sheridan tank turret maintenance, including electricity fundamentals, machine gun repair, turret support mechanisms, and fire control systems.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

Related Occupation Codes: 45P.

AR-1710-0033

Engineer Equipment Officer

Course Number: 4L-0663; 5-O-13.

Location: Engineer School, Ft. Belvoir, VA.

Length: 6–8 weeks (188–308 hours).

Exhibit Dates: 8/55–Present.

Objectives: To train commissioned officers to plan, coordinate, and supervise the effective utilization and recovery of equipment.

Instruction: Lectures and practical exercises in the planning, coordination, and supervision of the effective utilization and recovery of equipment. Course includes field engineering, maintenance management, repair parts, generators, internal-combustion engines, power trains, troubleshooting and organizational maintenance, construction equipment, automotive and special subjects, welding, hand and machine tools, crane-shovels, tractors and scrappers, motorized graders, air compressors, concrete construction equipment, operation and maintenance of rock crushers, asphalt and related equipment, and earth moving.

Credit Recommendation: In the vocational certificate category, 4 semester hours in heavy equipment shop foremanship (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment shop foremanship (6/75).

AR-1710-0034

Engineer Equipment Repair, Enlisted

Course Number: 5-E-14.

Location: Engineer School, Ft. Belvoir, VA.

Length: 8 weeks (304 hours).

Exhibit Dates: 5/55–12/68.

Objectives: To train enlisted personnel to perform as engineer equipment repairmen.

Instruction: Lectures and practical exercises in the repair and maintenance of engineer construction equipment at the field and depot level, including crane-shovels, air compressors, tractors, motorized graders, internal-combustion engines, special subjects, miscellaneous equipment, and welding.

Credit Recommendation: In the vocational certificate category, 5 semester hours in heavy equipment repair technology (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment repair technology (7/74).

AR-1710-0035

Mechanical Maintenance (MM-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 6-MM-C40A.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 9–12 weeks (424–480 hours).

Exhibit Dates: 2/73–Present.

Objectives: To train enlisted personnel in mechanical maintenance.

Instruction: Lectures and practical exercises in mechanical maintenance, including general career management, common technical subjects, machine shop operations, oxyacetylene welding, electric arc welding, metal inert-gas welding, tungsten inert-gas welding, and metal body repair.

Credit Recommendation: In the vocational certificate category, 3 semester hours in auto body laboratory, 3 in welding laboratory, 3 in machine tool laboratory, 3 in diesel engine laboratory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in auto body laboratory, 3 in welding laboratory, 3 in machine tool laboratory, 3 in diesel engine laboratory (7/74).

Related Occupation Codes: 41C; 44A; 44B; 44C; 44D; 44E; 45B; 45D; 45K; 45J; 45L; 45M; 57C; 63B; 63C; 63F; 63G; 63H; 63J; 63K.

AR-1710-0036

Engineer Equipment Maintenance

Course Number: 5-E-12.

Location: Engineer School, Ft. Belvoir, VA.

Length: 8–9 weeks (310–320 hours).

Exhibit Dates: 4/55–12/68.

Objectives: To train enlisted personnel as engineer equipment mechanics.

Instruction: Lectures and practical exercises in organizational maintenance of engineer equipment and attachments, including fundamental subjects, gasoline engines, diesel engines, air compressors, tractors, motorized graders, crane-shovels, miscellaneous engineer equipment, welding, transporting engineer equipment, construction equipment operation, organizational maintenance, and facilities maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in heavy equipment maintenance (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment maintenance (7/74).

AR-1710-0037

Field Artillery Repair

Course Number: 642-422.1; 9-R-422.1; 9-E-76.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 7–8 weeks (270–304 hours).

Exhibit Dates: 5/56–12/68.

Objectives: To train enlisted personnel to repair and rebuild light, medium, and heavy field artillery, related materiel, and mounts.

Instruction: Lectures and practical exercises in field artillery repair, including introduction to field artillery maintenance; common tools; characteristics, description, removal, disassembly, assembly, maintenance, and installation of components; inspection of various cannons, guns, and rocket launchers; electrical systems and undercarriage, top carriage, and elevating and traversing mechanisms, description and removal; elevating A-frame, travelling lock, and traverse frame of specific rocket launcher; atomic warfare; bore evaluation; and gas pressure tests.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in mechanical or technical areas (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in mechanical or technical areas (7/74).

AR-1710-0038

Missile Tank Turret Mechanic

Course Number: 643-45R10; 643-45R20.

Location: Armor School, Ft. Knox, KY.

Length: 11–13 weeks (406–456 hours).

Exhibit Dates: 4/73–Present.

Objectives: To train enlisted personnel to maintain tank turret systems for the M60A2 tank turret systems and the 20mm gun.

Instruction: Lectures and practical exercises in the maintenance of the M60A2 tank turret system. Course includes mechanical training for MT3, M85 and .50 machine guns; turret systems for M60A2 tank, including electrical systems, controls, hydraulic systems, laser range-finder system, and other turret system functions.

Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in technical/vocational programs (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in vocational/technical programs (7/74).

Related Occupation Codes: 45R; 09B.

AR-1710-0039

MATERIALS HANDLING EQUIPMENT MECHANIC

Course Number: 610-F2.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 2 weeks (70 hours).

Exhibit Dates: 8/70–Present.

Objectives: To train enlisted personnel to maintain the 6,000-pound rough-terrain forklift and the 4,000-pound electric forklift.

Instruction: Lectures and practical exercises in the maintenance of a 6,000-pound rough-terrain forklift and a 4,000-pound electric forklift. Course includes operational training on the 4,000- and the 6,000-pound forklifts, battery maintenance, tire repair, and brakes and steering mechanisms.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in heavy equipment repair (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in heavy equipment repair (7/74).

AR-1710-0040

ENGINEER EQUIPMENT MAINTENANCE OFFICER

Course Number: 5-O-5.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (369 hours).

Exhibit Dates: 9/54–12/68.

Objectives: To train engineer officers and warrant officers to inspect, maintain, and repair engineer equipment.

Instruction: Lectures and practical exercises in the inspection, maintenance, and repair of engineer equipment. Course includes power crane shovels, air compressors, tractors, motorized graders, gasoline and diesel engines, welding, maintenance administration subjects, engineer repair parts and supply, and electrical subjects.

Credit Recommendation: In the vocational certificate category, 4 semester hours in heavy equipment repair, 2 in shop management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment repair, 2 in shop management (7/74).

Related Occupation Codes: 621A.

AR-1710-0041

1. COMBAT ENGINEERING (12-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC
2. COMBAT ENGINEERING (CE-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC
3. COMBAT ENGINEERING NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: *Version 1:* 0-12-C40. *Version 2:* 0-CE-C40. *Version 3:* 030-12B40-EC.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 8–9 weeks (264–299 hours). *Version 2:* 12 weeks (384–390 hours). *Version 3:* 15 weeks (541 hours).

Exhibit Dates: *Version 1:* 8/75–5/78. *Version 2:* 3/73–7/75. *Version 3:* 3/71–2/73.

Objectives: To train noncommissioned officers to supervise combat engineering operations.

Instruction: Lectures and practical exercises in basic mathematics, map reading, job management and construction operations, bridges and bridge construction, structures and utilities, equipment utilization, demolition, rigging, field water supply, masonry construction, earth-moving equipment, and grading.

Credit Recommendation: *Version 1:* In the vocational certificate category, semester hours in construction foremanship (12/78). *Version 2:* In the vocational certificate category, 4 semester hours in construction foremanship (7/74). *Version 3:* In the vocational certificate category, 6 semester hours in construction foremanship (7/74).

Related Occupation Codes: 12B; 12C; 12D; 12E; 12F.

AR-1710-0042

QUARRY MACHINE OPERATION

Course Number: 5-E-57.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 5 weeks (183 hours). *Version 2:* 3 weeks (92–120 hours).

Exhibit Dates: 1/54–12/68.

Objectives: To train enlisted personnel to operate and maintain quarry machines.

Instruction: Lectures and practical exercises in internal combustion engines theory and maintenance and quarry machine operation, including rock crushers, screens, and washers.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours as an elective in heavy equipment or civil technology (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in heavy equipment or civil technology (4/74). *Version 2:* In the vocational certificate category, 2 semester hours as an elective in heavy equipment or civil technology (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in heavy equipment or civil technology (4/74).

AR-1710-0043

ELECTRIC POWER PRODUCTION (CMF-52) NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 7-251-C42.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (337 hours).

Exhibit Dates: 4/76–Present.

Objectives: To provide noncommissioned officers with advanced training in utilities and construction.

Instruction: Course emphasizes, conferences, seminars, practical exercises, demonstrations, and case studies relating to military justice and discipline, leadership and management, maintenance management, field engineering, bridging, T/O structures, utilities and engineering construction management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in construction management, 1 in bituminous materials, 1 in electricity (9/79).

AR-1710-0044

MECHANICAL MAINTENANCE WARRANT OFFICER INTERMEDIATE (621A)

Course Number: 4-9-C30-C.

Location: Ordnance School (Phase I), Aberdeen Proving Ground, MD; Engineer School (Phase II), Ft. Belvoir, VA.

Length: 17 weeks (562 hours).

Exhibit Dates: 9/72–Present.

Objectives: To train warrant officer engineer equipment technicians to supervise general support and depot support maintenance.

Instruction: Lectures and practical exercises in the supervision of general support and depot support maintenance and military missions and functions; leadership and managerial studies; information systems; and malfunction diagnosis procedures for heavy construction equipment, electric test equipment, environmental equipment, gas turbine engines, and special electrical and electronic devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical or industrial technology, 2 in automotive or diesel mechanics, and 4 as an elective in business management (4/74); in the upper-division baccalaureate category, 2 semester hours as an elective in business management (4/74).

Related Occupation Codes: 621A.

AR-1710-0045

MECHANICAL MAINTENANCE WARRANT OFFICER INTERMEDIATE (632A)

Course Number: 4-9-C30E.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 19 weeks (583 hours).

Exhibit Dates: 7/72–Present.

Objectives: To train automotive technicians to supervise automotive maintenance personnel at the general support and depot support maintenance levels.

Instruction: Lectures and practical exercises in leadership and management, management information systems, supply management and maintenance management; machine shop, welding, metal body work; hydraulics, electricity and electronics; and wheel and track automotive equipment complete overhaul and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in automotive mechanics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in business management, 4 in mechanical or industrial technology, 2 in automotive mechanics (4/74); in the upper-division baccalaureate category, 2 semester hours in business management (4/74).

Related Occupation Codes: 632A.

AR-1710-0046

ARMAMENT MAINTENANCE (ENTRY)

Course Number: 9-R-420.0; 9-E-75.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (280–304 hours).

Exhibit Dates: 5/56–12/68.

Objectives: To train enlisted personnel to assist in performance of organizational, field, and depot maintenance of small arms and artillery.

Instruction: Lectures and practical exercises in operation of automotive type wrecker (crane); introduction to shop operation; supply and maintenance procedures, including disassembly and assembly of various types of small arms.

Credit Recommendation: In the vocational certificate category, 2 semester hours in mechanical technology (7/74).

AR-1710-0047

Railway Maintenance and Operations Officer

Course Number: *Version 1:* 55-A-F2. *Version 2:* 55-O-14.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 12 weeks (428 hours). *Version 2:* 20 weeks (732–772 hours).

Exhibit Dates: *Version 1:* 8/58–12/68. *Version 2:* 4/54–7/58.

Objectives: To provide personnel with knowledge of maintenance of way and structures; maintenance and repair of equipment; and main line and terminal operations.

Instruction: Lectures and practical exercises to include introduction to the transportation military railroad system; maintenance of way and structure; maintenance and repair of locomotives and rolling stock; main line and terminal operation; and transportation planning.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in railway maintenance and operation (12/68); in the upper-division baccalaureate category, 6 semester hours in railroad maintenance and management (7/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in railway maintenance and operation (12/68); in the upper-division baccalaureate category, 10 semester hours in railroad maintenance and management (7/74).

AR-1710-0048

Ordnance Shop Technician

Course Number: 4L-441A.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 19 weeks (655 hours).

Exhibit Dates: *Version 1:* 1/78–Present. *Version 2:* 3/72–12/77.

Objectives: To train personnel to perform the duties of general mechanical repair shop technicians or repair shop foremen.

Instruction: Conference and practical exercises to include command and staff subjects, management subjects, maintenance and supply management, individual- and crew-served weapons/tactical signal communications, common technical subjects, machine shop operations, canvas repair, recovery and evacuation, welder metal body repair, basic electricity, and hydraulics.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in machinist, 4 in welding (1/178); in the upper-division baccalaureate category, 2 semester hours in management (1/78). *Version 2:* In the vocational certificate category, 3 semester hours in machine tools, 3 in industrial management and technology, 2 in basic electricity, 3 in welding (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in machine tools, 3 in industrial management and technology, 2 in basic electricity, 3 in welding (5/74).

Related Occupation Codes: 441A.

AR-1710-0049

Mechanical Maintenance Noncommissioned Officer (NCO)

Course Number: 510-F1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 14 weeks (504 hours).

Exhibit Dates: 7/70–Present.

Objectives: To train personnel in the management of maintenance support operations at the company, battalion, and brigade levels.

Instruction: Conferences and practical exercises in military leadership, communication skills, military skills, management practices, organization for combat service support, supply management procedures, stock accounting procedures, maintenance management procedures, tank-automotive material, heavy and special support equipment, armament material, weapons calibration, and transportation management procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in equipment maintenance (5/74).

Related Occupation Codes: 44E; 44Z; 63B; 63C; 63F; 63G; 63H; 57C; 62B; 62C; 63J; 63K; 45B; 45J; 45M; 45K; 45L; 45Z; 41C; 35J; 34G.

AR-1710-0050

Ordnance Service Section Officer

Course Number: 9-B-4813; 9-O-15.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 6 weeks (216 hours).

Exhibit Dates: 11/56–12/68.

Objectives: To train officers in organization and management of an ordnance service section shop.

Instruction: Lectures and practical exercises in welding, machine tools, allied trades, shop organization, and vehicle recovery operations.

Credit Recommendation: In the vocational certificate category, 4 semester hours in manufacturing processes (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in manufacturing processes (5/74).

Related Occupation Codes: 441A.

AR-1710-0051

Carpentry and Masonry Specialist

Course Number: 712-51B10.

Location: Training Center, Ft. Leonard Wood, MO.

Length: 7 weeks (229 hours).

Exhibit Dates: 3/78–Present.

Objectives: To train enlisted personnel to use and maintain hand and power tools, and the fabrication of roof trusses, wood joints, and TO structures.

Instruction: Conferences and practical exercises on the identification, use, and maintenance of hand and power tools, wood frame structures components fasterers, roof trusses, and fabrication of structural elements. The mixing, placing, and finishing of concrete is covered.

Credit Recommendation: In the vocational certificate category, 1 semester hour in introduction to carpentry (9/79).

AR-1710-0052

Tank Turret Repair

Course Number: 643-45K10.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 8 weeks (256 hours).

Exhibit Dates: 7/76–Present.

Objectives: To train enlisted personnel to maintain the mechanical, electrical, electronic and hydraulic components and systems of the armament installed in tank turrets, armored reconaissance vehicles, and cupolas mounted on armored personnel carriers.

Instruction: Lectures and practical exercises in the maintenance of the mechanical, electrical, electronic, and hydraulic components and systems of the armament installed in tank turrets, armored reconaissance vehicles, and cupolas mounted on armored personnel carriers.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the training (1/78).

AR-1710-0053

Quartermaster Equipment Repair

Course Number: 690-63J10.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 10–13 weeks (Aberdeen Proving Ground, MD hours).

Exhibit Dates: 11/76–Present.

Objectives: To train enlisted personnel to install, adjust, and repair light quartermaster machinery and equipment.

Instruction: Lectures and practical exercises in installation and maintenance of single-cylinder engines, electrical motors and control panels, generators, laundry and burner equipment, and clothing and textile equipment. Emphasis is on applied troubleshooting.

Credit Recommendation: in the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance, 2 in electrical maintenance (1/78).

AR-1710-0054

M48/M60A1 Armor Crewman (BAT)
(M48/M60A1 Armor Crewman)

Course Number: 19E10-0SUT; 010-19E10.

Location: Armor School, Ft. Knox, KY.

Length: 9–13 weeks (397–568 hours).

Exhibit Dates: 12/78–Present.

Objectives: To train enlisted personnel to perform the various basic skills to become an armor crewman.

Instruction: Lectures and practical exercises in armor gunnery, support weapons and the performance of daily preventative maintenance checks and services for tanks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment repair (2/80).

Related Occupation Codes: 19E.

AR-1710-0055

Tank Driver Basic Armor Training (BAT)

Course Number: 19F10-OSUT.

Location: Armor School, Ft. Knox, KY.

Length: 13 weeks (524 hours).

Exhibit Dates: 12/78–Present.

Objectives: To train enlisted personnel to operate and perform routine maintenance and service for tanks.

Instruction: Lectures and practical exercises in tank operations and driving skills, support weapons and the performance of daily preventative maintenance checks and service for tanks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment repair (2/80).

Related Occupation Codes: 19F.

AR-1710-0056

Basic Armor Training (BAT)M60A2

Course Number: CMF-19J.
Location: Armor School, Ft. Knox, KY.
Length: 14 weeks (504 hours).
Exhibit Dates: 4/78-Present.

Objectives: To train enlisted personnel to perform the various basic skills to become an armor crewman.

Instruction: Lectures and practical experience in armor gunnery, fire controls, support weapons and the performance of daily preventative maintenance checks and services for tanks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment repair (2/80).

Related Occupation Codes: 19J.

AR-1710-0057

Armor Officer Basic-Reserve Component

Course Number: 2-17-C25.
Location: Armor School, Ft. Knox, KY.
Length: 4 weeks (174 hours).
Exhibit Dates: 1/76-Present.

Objectives: To qualify newly commissioned reserve officers in basic armor operations.

Instruction: Practical exercises in automotive and vehicle maintenance and operations, platoon tactics, electronic communications and tank weaponry.

Credit Recommendation: Credit is not recommended due to the military-specific nature of the course (2/80).

AR-1710-0058

Field Artillery Weapons Mechanic

Course Number: 041-ASIV6.
Location: Field Artillery School, Ft. Sill, OK.
Length: 5 weeks (177 hours).
Exhibit Dates: 1/79-Present.

Objectives: To qualify enlisted personnel, already qualified in MOS 13B, as field artillery mechanics, with principle emphasis on hydraulic and hydropneumatic systems.

Instruction: Lectures and practical exercises in parts supply procedures and maintenance management, lubrication and inspection records and procedures; inspecting, adjusting and repairing hydraulic and hydropneumatic systems using common tools, micrometers, pressure gauge and service manuals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in hydraulic systems maintenance and 1 in maintenance management (1/80).

Related Occupation Codes: 13B.

AR-1710-0059

M90A1 (ITV) Missile Tank Turret/Tank Turret Mechanic

Course Number: 643-ASIT7.
Location: Armor School, Ft. Knox, KY.
Length: 2 weeks (80-81 hours).
Exhibit Dates: 1/80-Present.

Objectives: To train for tank turret mechanic and missile tank turret mechanic at entry level.

Instruction: Course provides add-on training to Tank Turret Mechanic or Missile Tank Turret Mechanic.

Credit Recommendation: Pending evaluation.

AR-1712-0001

Armor Intelligence Specialist

Course Number: 250-11D10.
Location: Armor School, Ft. Knox, KY.
Length: 8 weeks (310 hours).
Exhibit Dates: 3/71-Present.

Objectives: To train enlisted personnel to drive and maintain armored vehicles and weapons.

Instruction: Lectures and practical exercises in the driving, maintenance and employment of armored vehicles and weapons, including field repair and maintenance of diesel engines and automatic weapons; marksmanship; combat and reconnaissance techniques; map reading; organization maintenance; and tactical and mechanical training.

Credit Recommendation: In the vocational certificate category, credit in engine mechanics on the basis of institutional evaluation (4/74).

Related Occupation Codes: 11D.

AR-1712-0002

Marine Engineer Skill Development Base

Course Number: 652-61C20-I.
Location: Transportation School, Ft. Eustis, VA.
Length: 15 weeks (589 hours).
Exhibit Dates: 10/68-Present.

Objectives: To train enlisted personnel as technicians and supervisors in the marine engineering field.

Instruction: Lectures and practical exercises in leadership principles; engine construction; internal-combustion engine principles; fuel injection, lubrication, cooling, hydraulic, diesel-cranking, and electrical systems operation and maintenance; electrical principles; refrigeration principles; hand and power tools operation; and onboard practical training.

Credit Recommendation: In the vocational certificate category, 3 semester hours in diesel engines, 3 in automotive electricity (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in diesel engines, 3 in automotive electricity (4/74); in the upper-division baccalaureate category, 3 semester hours in diesel engines (4/74).

Related Occupation Codes: 61A, 61C.

AR-1712-0003

Powerman

Course Number: 622-351.1.
Location: Engineer School, Ft. Belvoir, VA.
Length: 7 weeks (254 hours).
Exhibit Dates: 6/65-12/68.

Objectives: To train enlisted personnel to install, operate, and maintain gasoline and diesel engine portable generating equipment.

Instruction: Lectures and practical exercises in the installation, operation, and maintenance of gasoline and diesel engine portable generating equipment, including fundamental subjects, internal-combustion engine systems, diesel engine maintenance, electrical fundamentals, and conventional generator sets.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity, 1 in diesel mechanics (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 1 in diesel mechanics (7/74).

AR-1712-0004

Amphibian Engineer Mechanic

Course Number: 652-61E20.
Location: Transportation School, Ft. Eustis, VA.
Length: 5 weeks (161-168 hours).
Exhibit Dates: 1/67-Present.

Objectives: To train enlisted personnel to maintain the LARC V, LARC XV, and the LARC LX amphibious craft.

Instruction: Lectures and practical exercises in the maintenance of the LARC V, LARC XV, and the LARC LX amphibious craft, including electrical subjects, high-speed diesel engines, amphibian power trains and steering systems, and maintenance and repair procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in diesel mechanics, 2 as an elective in vocational/technical programs (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in diesel mechanics, 2 as an elective in vocational/technical programs (7/74).

Related Occupation Codes: 61E.

AR-1712-0005

Amphibian Engineer Repairman

Course Number: 652-61E30.
Location: Transportation School, Ft. Eustis, VA.
Length: 7 weeks (246 hours).
Exhibit Dates: 4/67-Present.

Objectives: To train enlisted personnel to maintain and repair the LARC V, the LARC XV, and the LARC LX amphibious craft.

Instruction: Lectures and practical exercises in the maintenance and repair of amphibious craft, including the LARC V, LARC XV, and the LARC LX. Course includes the operation, inspection, and troubleshooting of the electrical, fuel, hydraulic, pneumatic, steering, and power trains systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in diesel mechanics, 2 as an elective in vocational/technical programs (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in diesel mechanics, 2 as an elective in vocational/technical programs (7/74).

Related Occupation Codes: 61E.

AR-1712-0006

Engineer Equipment Repair Technician

Course Number: 4L-621A; 612-F2.
Location: Engineer School, Ft. Belvoir, VA.
Length: 11 weeks (376-427 hours).
Exhibit Dates: *Version 1:* 4/79-Present. *Version 2:* 6/66-3/79.

Objectives: To train officers to be engineer equipment and repair technicians.

Instruction: *All Versions:* Conferences and practical exercises in maintenance management, repair parts supply, gasoline engines, diesel engines, equipment components, troubleshooting, organizational maintenance, power generator equipment, precise-power generator repair, gas turbine repair, air conditioning, air compressors and Nike elevators and power packs. *Version 1:* Course does not include Nike elevators and power packs or air conditioning.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in introduction to gasoline engines, 1 in introduction to diesel engines, 1 as an elective in mechanical or industrial programs (9/79); in the lower-division baccalaureate/associate degree category, 1 semester hours in introduction to gasoline engines, 1 in introduction to diesel engines, 1 as an elective in mechanical or industrial programs (9/79); in the upper-division baccalaureate category, 1 semester hour in maintenance management, 1 in supply management (9/79). *Version 2:* In the vocational certificate category, 1 semester hour in introduction to gasoline engines, 1 in introduction to diesel engines, 1 in air conditioning, and 1 as an elective in mechanical or industrial programs (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to gasoline engines, 1 in introduction to diesel engines, 1 in air conditioning, and 1 as an elective in mechanical or industrial programs (6/75); in the upper-division baccalaureate category, 1 semester hour in maintenance management and 1 in supply management (6/75).

Related Occupation Codes: 621A.

AR-1712-0007

Harbor Craft Engineering Officer
(Harbor Craft Engine Operation (Advanced))

Course Number: 8C-0823; 4H-562D; 652-F1; 55-H-0823; 55-OE-23.

Location: Transportation School, Ft. Eustis, VA.

Length: 17-19 weeks (630-713 hours).

Exhibit Dates: 3/54–Present.

Objectives: To train personnel to operate and maintain the engines and auxiliary machinery and equipment on vessels.

Instruction: Lectures and practical exercises in vessel engines and auxiliary machinery, and equipment operation and maintenance, including logistics, engineering, shipfitting and welding, pipefitting, marine electricity, diesel engines, boilers, and leadership training.

Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in diesel repair, 3 in diesel mechanics (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in diesel repair, 3 in diesel mechanics (7/74).

Related Occupation Codes: 61C; 500A; 561B; 561C; 561D; 561E.

AR-1712-0008

Diesel Engine Repair

Course Number: 5-E-34.

Location: Engineer School, Ft. Belvoir, VA.

Length: 11 weeks (382 hours).

Exhibit Dates: 2/56–12/68.

Objectives: To train enlisted personnel to repair diesel engines used as power units on heavy cranes, shovels, graders, air compressors, and generator sets.

Instruction: Lectures and practical exercises in the repair and safe operation of earth-moving and heavy equipment. Course includes diesel theory and repair, electrical devices, and units of instruction on specific engines.

Credit Recommendation: In the vocational certificate category, 8 semester hours as an elective in diesel engine laboratory or heavy equipment (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours as an elective in diesel engine laboratory or heavy equipment (7/74); in the upper-division baccalaureate category, 5 semester hours as an elective in diesel engine laboratory or heavy equipment (7/74).

AR-1712-0009

Amphibian Engineer Skill
Development Base

Course Number: 652-61E20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 14 weeks (571 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train amphibian engineers to perform as technicians and supervisors.

Instruction: Lectures and practical exercises in amphibian engineering and supervisory techniques, including leadership, welding, general subjects, electrical subjects, fuel systems, high-speed diesel engines, hydraulic systems, amphibian power trains, and pneumatic systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in welding laboratory, 2 in diesel engine laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in welding laboratory, 2 in diesel engine laboratory (7/74).

Related Occupation Codes: 61E.

AR-1712-0010

Marine Engineering and Repair
Supervision

Course Number: 55-E-29.

Location: Transportation School, Ft. Eustis, VA.

Length: 12 weeks (433 hours).

Exhibit Dates: 8/55–12/68.

Objectives: To train enlisted personnel to supervise engineroom activities on harborcraft, and to maintain and repair marine engines and auxiliaries.

Instruction: Lectures and practical exercises in supervision of engineroom activities on harborcraft and in maintenance and repair of marine engines and auxiliaries, including basic equipment fundamentals, electricity, pipe design and theory, machine tool operation, refrigeration, fuel injection review, two- and four-stroke propulsion engines, two-stroke auxiliary engines, and diesel fundamentals.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity, 2 in machine shop, 3 in introduction to diesel engines, and 1 in introduction to refrigeration (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity, 2 in machine shop, 2 in introduction to diesel engines, and 1 in introduction to refrigeration (7/74).

AR-1712-0011

Diesel-Electric Locomotive Repair

Course Number: 55-E-8.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (440 hours).

Exhibit Dates: 8/55–12/68.

Objectives: To train enlisted personnel as diesel-electric locomotive repairmen.

Instruction: Lectures and practical exercises in inspection, maintenance, overhaul, and repair of non-electric sections of diesel-electric locomotives and their component parts and assemblies, including general basic technical subjects; diesel engines assemblies; basic blueprint reading and machine sketching; diesel operating principles; hand and power tools; diesel-electric locomotive terms; diesel engine governors; and nomenclature and location of electrical equipment.

Credit Recommendation: In the vocational certificate category, 7 semester hours in diesel technology (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in diesel technology (7/74).

AR-1712-0012

Marine Engineer Repair

Course Number: 652-61C30.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (355 hours).

Exhibit Dates: 3/71–Present.

Objectives: To train marine engineers to operate, maintain, and repair propulsion systems, auxiliary equipment, machinery, and sustaining equipment on marine vessels.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of propulsion systems, auxiliary equipment, machinery, and sustaining equipment on marine vessels, including mathematics, diesels, gasoline engines, centrifuges and governors, measuring instruments, machine shop procedures and equipment, AC and DC motors and generators, electrical calculations and meters, electronics equipment, oxyacetyleve welding and blacksmithing, refrigeration systems, fuel injection equipment, and installation, operation, maintenance, troubleshooting of diesel engines.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in power technology, 2 in diesel power (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in power technology, 2 in diesel power (7/74); in the upper-division baccalaureate category, 2 semester hours as an elective in power technology (7/74).

Related Occupation Codes: 61C.

AR-1712-0013

1. Power Generation Equipment Repairer PTC
(Power Generation Equipment Repairman)
2. Gas Turbine Generator Repair

Course Number: *All Versions:* 662-52D20. *Version 2:* 662-351.3.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 11-17 weeks (356-539 hours). *Version 2:* 12-13 weeks (442-480 hours).

Exhibit Dates: *Version 1:* 12/72–Present. *Version 2:* 6/65–11/72.

Objectives: To train enlisted personnel to maintain and repair electric control circuitry, electric motors and generators, gas turbine engines, and gasoline and diesel engines.

Instruction: Lectures and practical exercises in the maintenance and repair of electric control circuitry, electric motors and generators, gas turbine engines, and gasoline and diesel engines. Course includes general support maintenance procedures for the following types of generator sets: gasoline engine, tactical precise diesel engine, tactical turbine engine, turbine driven multioutput units, and electrical forklift trucks.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electrical maintenance, 2 in diesel mechanics, 2 in auto mechanics (9/79); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical maintenance, 2 in diesel mechanics, 2 in auto mechanics (9/79). *Version 2:* In the vocational certificate category, 2 semester hours in electrical maintenance, 2 in auto mechanics, 2 in generator repair (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical maintenance, 2 in auto mechanics, 2 in generator repair (8/74).

Related Occupation Codes: 52B, 52D.

AR-1713-0001

Decca Charting and Reproduction

Course Number: 411-F1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 6 weeks (227 hours).

Exhibit Dates: 3/67–Present.

Objectives: To provide enlisted personnel with basic training in Decca hyperbolic navigation charting.

Instruction: Lectures in Decca hyperbolic navigation theory and system, flight log chart production, and chart assembly and reproduction; and exercises in navigational charting techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in radio navigation, 6 in cartography (2/74).

Related Occupation Codes: 81C, 81D.

AR-1713-0002

Antiaircraft Artillery (AAA) Operations and Intelligence Noncommissioned Officer (NCO)

Course Number: 44-E-2.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 14 weeks (507 hours).

Exhibit Dates: 11/56–12/68.

Objectives: To train AAA operations and intelligence specialists to assist operations officers in the establishment of fire control orientation data.

Instruction: Lectures and practical exercises in AAA operations and intelligence, including mathematics, engineering drawing, survey and orientation, map and aerial photograph reading, gunnery, tactics, communications, instructor training, training management, astronomical computations, azimuth determination, AAA service practice recording and analysis, and plane surveying.

Credit Recommendation: In the vocational certificate category, 5 semester hours in plane surveying and engineering drawing (5/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in plane surveying and engineering drawing (5/74).

AR-1713-0003

General Drafting

Course Number: 5-E-3.

Location: Engineer School, Ft. Belvoir, VA.

Length: 9 weeks (330–360 hours).

Exhibit Dates: 1/54–12/68.

Objectives: To train enlisted personnel to assist in cartographic model making and related art and drafting activities.

Instruction: Lectures and practical exercises in basic drafting, mathematics review, military drafting techniques, projected drawings, blueprint reading, and graphs and charts.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic drafting (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic drafting (5/74); in the upper-division baccalaureate category, 4 semester hours in engineering drawing (12/68).

AR-1713-0004

Map Compiling (for Army Personnel)

Course Number: 411-81D20; 5-R-812.1; 5-E-1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (366–400 hours).

Exhibit Dates: 7/53–9/70.

Objectives: To train enlisted personnel to compile and revise planimeter, topographic and photographics maps, using drafting instruments and plotting devices.

Instruction: Lectures and practical exercises in map compiling, including compilation base preparation, radial triangulation, aerial photography planning and mosaics, color separation, situation overlays, and terrain analysis maps.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in map compilation (5/74); in the upper-division baccalaureate category, 4 semester hours in mapping and drafting (12/68).

Related Occupation Codes: 81D.

AR-1713-0005

Map Compiling (for Air Force Personnel)

Course Number: 411-81D20.

Location: Engineer School, Ft. Belvoir, VA.

Length: 11–13 weeks (402–492 hours).

Exhibit Dates: 12/67–9/70.

Objectives: To train enlisted personnel to compile and revise planimeter, topographic, and phtotographic maps, using drafting instruments and plotting devices.

Instruction: Lectures and practical exercises in map compilation, including compilation base preparation, radial triangulation, aerial photography planning and mosaics, color separation, situation overlays, and terrain analysis maps.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in map compilation (5/74); in the upper-division baccalaureate category, 4 semester hours in mapping and drafting (12/68).

AR-1713-0006

Cartographic Drafting

Course Number: 411-81C20; 411-813.1; 5-E-4.

Location: Engineer School, Ft. Belvoir, VA.

Length: 9–11 weeks (321–440 hours).

Exhibit Dates: 7/53–4/72.

Objectives: To train enlisted personnel to be cartographic drafters.

Instruction: Lectures and practical exercises in cartographic drafting, including color separation drafting techniques, map preparation with drafting equipment and scribing instruments, map revision, aerial photomosaic preparation, situation overlays, compilation base preparation, and radial triangulation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in mapping and drafting (5/74); in the upper-division baccalaureate category, 4 semester hours in mapping and drafting (12/68).

Related Occupation Codes: 81C.

AR-1713-0007

Construction Drafting

Course Number: 413-81B20; 5-R-811.1; 5-E-50.

Location: Ft. Belvoir, VA, 4-440 0.

Length: 10–11 weeks (374-440 hours).

Exhibit Dates: 3/54–2/71.

Objectives: To train enlisted personnel to prepare working drawings for bridges, airfields, roads, railroads, and piers.

Instruction: Lectures and practical exercises in basic drafting; mathematics review; materials and methods of construction; construction drawings; estimates and bills of material; plumbing, heating, and wiring layouts; perspective drawings; and roads, railroads, and airfields drawing and calculations for survey notes.

Credit Recommendation: In the vocational certificate category, 10 semester hours in architectural drafting (7/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in architectural drafting (7/74); in the upper-division baccalaureate category, 4 semester hours in engineering drafting (12/68).

AR-1713-0008

Field Artillery Fire Support Specialist

Course Number: 250-13F10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5–12 weeks (165–497 hours).

Exhibit Dates: 3/78–8/79.

Objectives: To qualify enlisted personnel to become a member of a fire support team.

Instruction: Lectures and practical exercises in map reading, land navigation, resection, polar plotting grid coordinates and use of metric measurement; installation, operation and maintenance of radio transmitters and receivers; requesting fires and the subsequent adjustment of artillery fires, either day or night, using maps, compass, formulas, and radio telephone. NOTE: Thirteen week course includes 8 weeks basic training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (1/80).

AR-1714-0001

Tactical Circuit Controller

Course Number: *Version 1:* 202-31N10; 202-31N10-CELT. *Version 2:* 202-31N20.

Location: Southeastern Signal School, Ft. Gordon, GA; Signal School, Ft. Gordon, GA.

Length: *Version 1:* 10–15 weeks (373–610 hours). *Version 2:* 11 weeks (384–391 hours). *Version 3:* 5 weeks (180 hours).

Exhibit Dates: *Version 1:* 6/79–Present. *Version 2:* 8/73–5/79. *Version 3:* 10/66–7/73.

Objectives: To train enlisted personnel to operate tactical patching panels.

Instruction: *All Versions:* Practical exercises in installation, operation, and operator maintenance of communications patching panels. *Version 1:* All basic introductory electronic topics have been deleted from this version.

Credit Recommendation: *Version 1:* Credit is not recommended because of the military-specific nature of the course (8/79) *Version 2:* In the vocational certificate category, 4 semester hours in electrical laboratory, and additional credit on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 2 semester hours in electrical laboratory, and additional credit on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31N.

AR-1714-0002

Surface-to-Air Missile Mechanical Materiel Maintenance (Nike Ajax)

Course Number: ~~44~~-R-221.2.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8 weeks (278 hours).

Exhibit Dates: 4/57–12/68.

Objectives: To train enlisted personnel to assemble, install, maintain, and adjust Nike Ajax mechanical and hydraulic on-missile guidance control systems and associated equipment.

Instruction: Lectures and practical exercises in assembly and maintenance of surface-to-air missiles, including basic electricity, missile mechanics, mechanical materiel of assembly and launching areas, and missile preparation and depreparation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (12/68).

AR-1714-0003

Missile Monitor Operations Central and Terminal Equipment Repair

Course Number: 11-N-298.2.

Location: Signal Fire Distribution Systems Training Activity, Ft. Bliss, TX.

Length: 18 weeks (660 hours).

Exhibit Dates: 6/61–12/68.

Objectives: To train warrant officers and enlisted personnel with electronics backgrounds to perform field and organizational maintenance on missile monitor operations central and coder-decoder subsystems.

Instruction: Lectures and laboratories in coordinate data, digital fundamentals, power supplies, coder-decoder groups, detailed circuit analysis of operations central, ground-to-slant converters, and troubleshooting and repair techniques.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1714-0004

Infantry Communication Supervision

Course Number: 7-R-311.7; 7-E-2.

Location: Infantry School, Ft. Benning, GA.

Length: 11–13 weeks (440–545 hours).

Exhibit Dates: 1/55–12/68.

Objectives: To train personnel to supervise the maintenance of signal communications equipment.

Instruction: Lectures and practical exercises in job-oriented communication fundamentals, including message center operation and cryptography, radio receiver operation, radio sets and allied equipment, wire communication, tactical application of communications, map and aerial photograph reading, and wire-laying techniques and pole climbing.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1714-0005

Antiaircraft Artillery Remote Control Repair

Course Number: 9-R-301.2.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 9 weeks (315 hours).

Exhibit Dates: 1/57–12/68.

Objectives: To train antiaircraft artillery remote control repairmen to inspect, test, and maintain light and heavy nonintegrated antiaircraft remote control equipment.

Instruction: Lectures and practical exercises in the maintenance of light and heavy nonintegrated antiaircraft remote control equipment, including sighting devices, electrical-mechanical drive controllers, oil gears, indicator systems, power control, motor drives, testing, and field maintenance procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electromechanical repair (3/74); in the upper-division baccalaureate category, credit in electricity on the basis of institutional evaluation (3/74).

AR-1714-0006

Locomotive Electrician

(Diesel-Electric Locomotive Electrician)

Course Number: 55-R-653.1; 55-E-37.

Location: Transportation School, Ft. Eustis, VA.

Length: 10 weeks (350 hours).

Exhibit Dates: 8/55–12/68.

Objectives: To train enlisted personnel to inspect, repair, and maintain electrical equipment and accessories of diesel-electric locomotives.

Instruction: Lectures and practical exercises in the inspection, repair, and maintenance of electrical equipment and accessories of diesel-electric locomotives, including elementary electricity and electrical equipment, tracing of electrical wiring diagrams, generators and traction motors, control equipment, auxiliary electrical equipment operation, batteries, and troubleshooting and test procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity, 1 in electrical laboratory (4/74).

AR-1714-0007

Power Equipment Maintenance

Course Number: 11-E-8.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 10 weeks (356 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train enlisted personnel to install, operate, and maintain portable gasoline and diesel electrical power-generation equipment.

Instruction: Lectures and practical exercises in installation, operation, and maintenance of portable gasoline and diesel electrical power-generation equipment, including introduction to communications, electrical fundamentals, gasoline power units, diesel engine components and operation, generating components, and power unit installation procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical technology, 3 in automotive technology, and 2 in diesel technology (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical technology, 3 in automotive technology, and 2 in diesel technology (4/74).

AR-1714-0008

Marine Engineering Officer Advanced

Course Number: 4H-562C.

Location: Transportation School, Ft. Eustis, VA.

Length: 14 weeks (477 hours).

Exhibit Dates: 1/72–8/76.

Objectives: To train engineering officers to perform as marine engineering officers for medium-sized vessels.

Instruction: Lectures and practical exercises in marine engineering for medium-sized vessels, including logistics, management, military correspondence, vessel design, hull repair, general engineering principles, diesel engine fundamentals, basic electricity, and refrigeration and air conditioning systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electricity, 1 in introduction to diesel engines, and credit in an industrial, mechanical, or marine technology elective on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity, 1 in introduction to diesel engines, and credit in an industrial, mechanical, or marine technology elective on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in basic electricity and an industrial, mechanical, or marine technology elective on the basis of institutional evaluation (4/74).

AR-1714-0009

Antennaman Noncommissioned Officer (NCO) Basic

Course Number: 621-36D40-EC.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 15 weeks (332 hours).

Exhibit Dates: 5/71–Present.

Objectives: To train noncommissioned officers as antennamen.

Instruction: Lectures and practical exercises in the duties and responsibilities of a noncommissioned officer antennaman, including command leadership subjects, maintenance, signal communications, personnel management, military leadership, civil affairs and disturbances, command tactics, CBR operations weapons, Army aviation, special warfare, active and passive air defense measures, and surveying and installation of antennas.

Credit Recommendation: In the vocational certificate category, 2 semester hours in civil technology (communications) (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in civil technology (communications) (5/74); in the upper-division baccalaureate category, 3 semester hours in civil technology (communications) (5/74).

Related Occupation Codes: 36D.

AR-1714-0010

Lineman Skill Development Base

Course Number: 621-36C40-I.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 12 weeks (479 hours).

Exhibit Dates: 12/68–Present.

Objectives: To train enlisted personnel to qualify as linemen supervisors.

Instruction: Lectures and practical exercises in the responsibilities of a lineman, including leadership training, small-unit tactics, tactical field exercises, general military subjects, organization and employment of signal units, signal systems planning and control, team chief training, counterintelligence, security during movement, defense of signal installations, fundamentals of defensive combat, and communications control.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 36C.

AR-1714-0011

Lineman Noncommissioned Officer (NCO) Basic

Course Number: 621 36C40-EC.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 13 weeks (500 hours).

Exhibit Dates: 5/71–Present.

Objectives: To train personnel to supervise linemen.

Instruction: Lectures and practical exercises in the duties of a noncommissioned officer and lineman, including command leadership subjects, command tactics, procurement of outside-plant materials and equipment, military justice, unit readiness, field engineering, mine warfare, special warfare, selection of materials and equipment, construction team supervision, outside-plant inspection, emergency medical treatment, and signal communications.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 36C; 31Z.

AR-1714-0012

Field Wireman Noncommissioned Officer (NCO) Basic

Course Number: 621-36K40-EC.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 13 weeks (500 hours).

Exhibit Dates: 5/71–Present.

Objectives: To qualify enlisted personnel as noncommissioned officers in field wiring.

Instruction: Lectures and practical exercises in the basic duties of NCO field wiremen. Topics include command leadership, command tactics, emergency medical treatment, procurement of field wire and field cable, wire team supervision, field wire and cable system inspections, and other general military subject matter.

Credit Recommendation: Credit is not recommended because of the military speecific nature of the course (5/74).

Related Occupation Codes: 36K; 31G; 36C.

AR-1714-0013

Associate Surface-to-Surface Missile (SSM) Battery Officer

Course Number: 44-O-2C.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 15 weeks (600 hours).

Exhibit Dates: 3/55–12/68.

Objectives: To train officers in the responsibilities of battery-grade surface-to-surface artillery officers.

Instruction: Lectures and practical exercises in the duties and responsibilities of surface-to-surface artillery officers. Course includes basic electronics, motors and generators, communications, guidance, and firing.

Credit Recommendation: In the vocational certificate category, 4 semester hours in basic electricity (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity (12/68).

AR-1714-0014

1. Corporal Ground Handling Equipment Repair
2. Corporal Mechanical Systems Repair

(SSM Mechanical Repair)

Course Number: *Version 1:* 9-R-437;1 9-R-F22. *Version 2:* 9-R-432;1 9-E-66.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 9–10 weeks (319–364 hours). *Version 2:* 7–14 weeks (266-519 hours).

Exhibit Dates: *Version 1:* 7/59–12/68. *Version 2:* 5/55–6/59.

Objectives: To train enlisted personnel to perform as Corporal ground handling equipment repairmen or Corporal mechanical systems repairmen.

Instruction: *Version 1:* Lectures and practical exercises in inspection, testing, field maintenance, and repair of Corporal ground handling, launching, servicing and associated test equipment, including ground handling equipment basics, basic pneumatics and air servicing truck, firing station and air compressor, function and operation of servicing platform, basic electricity, erector power set, drive wheel assembly and controller, and erector AC motors, speed decreasers, and control components. *Version 2:* Lectures and practical exercises in inspection, testing, field repair and maintenance of Corporal missile mechanical and propulsion systems; procedures for fueling, defueling, and decontaminating the missile; and operation, field repair, and maintenance of ordnance items of Corporal ground handling equipment, including main air regulation system testing, propellant systems and components testing, propellant valve assembly, missile draining procedures, propellant trucks, and servicing platforms.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74). *Version 2:* Credit is not recommended because of the limited specialized nature of the course (6/74).

AR-1714-0015

1. Wire System Installer/Operator
2. Telephone Installer and Lineman
3. Lineman

Course Number: *Version 1:* 621-36C10-OSUT. *Version 2:* 621-36C20. *Version 3:* 621-36C20; 11-R-321·1 11-E-26.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA. *Version 3:* Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 12 weeks (496 hours). *Version 2:* 9 weeks (315 hours). *Version 3:* 7–8 weeks (244–280 hours).

Exhibit Dates: *Version 1:* 10/78–Present. *Version 2:* 8/74–9/78. *Version 3:* 12/55–7/74.

Objectives: To train selected enlisted personnel to construct, recover, and maintain outside plants consisting of open wire, aerial cable, field wire, and field cable systems, and to install telephones, unattended repeaters, and field switchboards.

Instruction: Lectures and practical exercises in construction, maintenance, and recovery of outside plants consisting of open wire, aerial cable, field wire, and field cable systems, and in installation of telephones, unattended repeaters, and field switchboards. Course includes fixed-cable construction; fixed-telephone installation; field cable transmission lines; and field training exercises. Version 1 eliminates unattended repeaters from the curriculum.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in telephone lineman/installer (8/79). *Version 2:* In the vocational certificate category, 2 semester hours in electrical apprenticeship laboratory (6/75). *Version 3:* In the vocational certificate category, 4 semester hours as an elective in electrical and lineman techniques (8/74).

Related Occupation Codes: 36C.

AR-1714-0016

Cable Splicing

Course Number: 11-R-322.1; 11-E-1.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 14–15 weeks (508–546 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train enlisted personnel to splice, install, and maintain various types of communications cables used in the military.

Instruction: Lectures and practical exercises in cable splicing, including introduction to communications, basic cable splicing, cable installation, exchange and toll cable installation, and locating and clearing cable faults.

Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in electrical and cable techniques (8/74).

AR-1714-0017

Electrician

Course Number: 721-51R10.

Location: Training Center, Ft. Leonard Wood, MO.

Length: 8 weeks (278 hours).

Exhibit Dates: 3/78–Present.

Objectives: To provide enlisted personnel with skills required for installing and testing basic low-voltage electrical circuits.

Instruction: Lectures and practical experience in reading construction drawing, basic carpentry and plumbing, simple single-phase, low-voltage, interior electrical wiring, and distribution pole climbing and maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity (9/79).

AR-1714-0018

Wire Systems Installer/Operator by Correspondence

Course Number: J09.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the practical knowledge necessary to install, maintain, and recover field cable systems, and to install, operate and maintain tactical switchboards and telephone central offices.

Instruction: Course is designed to teach practical knowledge needed to install, maintain and operate field cable systems, switchboards, and telephone sub-systems.

Credit Recommendation: Credit is not recommended due to the limited technical nature of the course (6/79).

Related Occupation Codes: 36C.

AR-1714-0019

CABLE SPLICER BY CORRESPONDENCE

Course Number: J42.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To teach personnel to prepare, test, and join insulated conductors and to provide basic knowledge in electricity and in the operation of multimeter in multiplex-conductor cables.

Instruction: To provide instruction in basic electricity and the uses of multimeter in testing and joining of insulated conductor cables.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity (6/79).

Related Occupation Codes: 36E.

AR-1714-0020

TACTICAL CIRCUIT CONTROLLER BY CORRESPONDENCE

Course Number: J04.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to make signal and power connections for the operation of a patch panel facility.

Instruction: Course gives instruction in the operation of a patch panel facility. Provides the knowledge necessary to make signal and power connections, tests, monitors and re-route circuits. Provides instruction in the maintenance of records and preparation of various reports necessary to coordinate patching operations with operating personnel.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (6/79).

AR-1714-0021

ANTENNA INSTALLER SPECIALIST BY CORRESPONDENCE

Course Number: J40.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to perform basic procedures and techniques involved in the installation and maintenance of pole and steel tower antennas.

Instruction: Course provides instruction in basic mathematics and the basic theory of electricity. Information necessary to understand radio wave propagation and the testing of wire lines using the wheatstone bridge is provided.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and electricity and use of test equipment (9/79). Credit recommended is based on proctored end-of-course examination.

Related Occupation Codes: 36D.

AR-1714-0022

BASIC ELECTRICITY BY CORRESPONDENCE

Course Number: I66.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the individual with a thorough understanding of AC and DC fundamentals.

Instruction: Course provides instruction in basic mathematics, algebra and mathematical functions and vectors. Electrical AC and DC fundamentals as well as magnetism and electromagnetism are covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity (9/79). Credit recommended is based on completion of proctored end-of-course examination.

AR-1715-0001

ELECTRONIC INSTRUMENT REPAIR

Course Number: 198-35B20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Southeastern Signal School, Ft. Gordon, GA.

Length: 23–27 weeks (849–1005 hours).

Exhibit Dates: *Version 1:* 12/77–Present. *Version 2:* 3/67–11/77.

Objectives: To train enlisted personnel to maintain and repair electronic test equipment.

Instruction: *Version 1:* Extended course covering the testing, maintenance and repair of specific models of test equipment including multimeters, signal generators, oscilloscopes and wattmeters. Includes analysis of actual circuits, alignment and calibration procedures, troubleshooting and repair, with extensive practical work. *Version 2:* Extended course covering the testing, maintenance, and repair of specific models of test equipment, including meters, test oscillators, oscilloscopes, frequency counters, heterodyne frequency meters, tube testers, radiac instruments and special-purpose test sets. Includes analysis of actual circuits, alignment and calibration procedures, troubleshooting and repair, with extensive practical work.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in soldering and printed circuit board repair and 8 in instrumentation repair (8/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in instrumentation repair (8/79). *Version 2:* In the vocational certificate category, 6 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (11/73); in the upper-division baccalaureate category, credit in electronic instrument repair on the basis of demonstrated skills and/or instructional evaluations (12/68). *Version 3:* In the vocational certificate category, 6 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (11/73); in the upper-division baccalaureate category, credit in electronic instrument repair on the basis of demonstrated skills and/or institutional evaluations (12/68).

Related Occupation Codes: 35B.

AR-1715-0002

AIR DEFENSE ELECTRONIC WARFARE (NIKE-HERCULES)

Course Number: 2G-F3; 104-F6.

Location: Air Defense School, Ft. Bliss, TX.

Length: 3 weeks (112 hours).

Exhibit Dates: 10/72–Present.

Objectives: To provide commissioned and warrant officers and selected enlisted personnel with a general knowledge of electronic countermeasures (ECM), use of Nike-Hercules Air Defense radars and ancillary equipment in an ECM environment, and electronic warfare training devices and techniques.

Instruction: Electronic warfare analysis; history of EW and EW targets; electronic warfare activities; ESM/ELSEC/COMSEC; Air Force operations in a hostile environment; frequency surveillance station orientation; electronic countermeasures (ECM); radar detection problem; electronic counter-countermeasures (ECCM) general; low power radar (Lopar) in EW; Operation Apache.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/73).

Related Occupation Codes: 16C20; 16C; 24P; 24Q; 221B; 221C; 222B; 251B.

AR-1715-0003

ELECTRONIC WARFARE (EW) ANALYST (NONCOMMUNICATIONS ECM)

(Electronic Warfare Analyst)

Course Number: 233-98J30.

Location: Security Agency School, Ft. Devens, MA.

Length: 13 weeks (448 hours).

Exhibit Dates: 1/66–Present.

Objectives: To provide selected enlisted personnel with a working knowledge of noncommunications equipment, U.S. and foreign noncommunications signal characteristics, plotting of electronic order of battle, and preparation and submission of required reports.

Instruction: Data processing; touch typing; mathematics; statistics; electronic equipment (amplifiers, oscillators, oscilloscopes, counters, filters, frequency analyzers); PRF determination; oscilloscope cameras; film processing; recording oscillographs and accessories; methods of scan measurement; beam width measurements; reporting; ECM employment, collection operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics, 2 in mathematics, 1 in touch typing (11/73); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, 1 in mathematics (11/73).

Related Occupation Codes: 98J.

AR-1715-0004

ELECTRONIC INSTRUMENT MAINTENANCE

(Electronic Instrument Repair)

Course Number: 198-35B30.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 17 weeks (621–632 hours).

Exhibit Dates: *Version 1:* 12/77–Present. *Version 2:* 12/67–11/77.

Objectives: To train enlisted personnel to test, troubleshoot, maintain, repair, adjust, calibrate, and final test advanced types of electronic test equipment.

Instruction: Analysis of the circuits and principles of operation of the following equipment: electronic voltmeters, signal generators, panoramic indicators, missile system test equipment, digital readout counter, radar test set, oscilloscopes, telegraph test set, and other electronic test equipment. Emphasis on alignment and calibration procedures, troubleshooting and repair, with extensive practical work. Version 1 does not include panoramic indicators or missile system test equipment but does include digital voltmeters.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in instrument repair (8/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in instrument repair (8/89). *Version 2:* In the vocational certificate category, 4 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (11/73); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (11/73).

Related Occupation Codes: 35B.

AR-1715-0005

Electronic Countermeasures Operations

Course Number: 233-F2.

Location: Security Agency School, Ft. Devens, MA.

Length: 3-5 weeks (108-135 hours).

Exhibit Dates: 7/68-Present.

Objectives: To train personnel to operate electronic countermeasures (ECM) equipment.

Instruction: History of electronic warfare; electronic countermeasures; electronic warfare support measures; electronic counter-countermeasures; electronic warfare; review of basic radio receiver theory; review of basic radio transmitter theory; technical and tactical employment of ECM equipment; ECM techniques; power units for ECM equipment; countermeasures set; second countermeasures set; third countermeasures set.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (9/77).

AR-1715-0006

Electronic Mixer HLC-1A/TSEC

Course Number: 160-F4.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 3 weeks (108 hours).

Exhibit Dates: 5/71-Present.

Objectives: To provide enlisted personnel with a working knowledge of the techniques required to maintain and repair electronic mixer HLC-1A/TSEC.

Instruction: Equipment orientation; introduction and general description of AN/FGA-21; operational procedures; power supply; basic logic circuits; basic timing circuits; control circuits; character and group counters; data processing circuits; teletypewriter control circuits; installation procedures; troubleshooting procedures; equipment serviceability profile; preventive maintenance; TEMPEST; COMSEC emergency procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (11/73).

Related Occupation Codes: 31G; 31S; 31U.

AR-1715-0007

1. Electronic Warfare Equipment Repairman
2. Electronic Warfare Equipment Repair

Course Number: *Version 1:* 102-26K20. *Version 2:* 11-R-283.1.

Location: *Version 1:* Electronic Warfare School, Ft. Huachuca, AZ; Electronic Warfare School, Ft. Devens, MA. *Version 2:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 38 weeks (1698 hours). *Version 2:* 33 weeks (1180 hours).

Exhibit Dates. *Version 1:* 6/71-Present. *Version 2:* 6/61-12/68.

Objectives: To train enlisted personnel having little or no prior electronics experience to inspect, test, and repair electronic warfare equipment.

Instruction: Electrical fundamentals; AC and DC circuits; electrical components; RLC circuits; vacuum tubes; special-purpose tubes; amplifiers and oscillators; semiconductor diodes and transistors; linear integrated circuits; single-sideband receivers and transmitters; digital circuits and systems; analog/digital conversion; microwave transmitters and receivers; electronic and mechanical components of radars; electronic warfare and countermeasures fundamentals.

Credit Recommendation: *Version 1:* In the vocational certificate category, 36 semester hours in electronics or full semester-hour equivalent to complete certificate program in electronics (11/73); in the lower-division baccalaureate/associate degree category, 18 semester hours in electronics (11/73); in the upper-division baccalaureate category, 4 semester hours as an elective in radio and electronics, and credit in electrical laboratory on the basis of institutional evaluation (11/73). *Version 2:* In the vocational certificate category, 36 semester hours in electronics or full semester-hour equivalent to complete certificate program in electronics (11/73); in the lower-division baccalaureate/associate degree category, 18 semester hours in electronics (11/73); in the upper-division baccalaureate category, 3 semester hours as an elective in radio and electronics, and credit in electrical laboratory on the basis of institutional evaluation (11/73).

Related Occupation Codes: 26K.

AR-1715-0008

1. Tactical Electronic Maintenance Chief
   (Supervisory Field Communications Equipment Maintenance)
2. Supervisory Field Communications Equipment Maintenance

Course Number: *Version 1:* 101-31W40; 101-31E40; 101-31L40; 160-31J40. *Version 2:* 101-294;6 101-296;6 160-341.6.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 20 weeks (868 hours). *Version 2:* 26 weeks (1144 hours).

Exhibit Dates: *Version 1:* 4/67-Present. *Version 2:* 11/65-3/67.

Objectives: To train enlisted personnel to apply advanced maintenance techniques and to supervise activities involved in the maintenance of field communications equipment.

Instruction: Advanced electronics; basic and advanced teletypewriter maintenance techniques; basic and advanced radio relay and carrier maintenance techniques; basic and advanced radio maintenance techniques; system trouble location; supervisory and training techniques; maintenance management; maintenance and supply procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in shop management (11/73). *Version 2:* In the vocational certificate category, 5 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in shop management, 2 in electronics, and credit in electrical laboratory on the basis of demonstrated skills and/or institutional evaluation (11/73).

Related Occupation Codes: 31W.

AR-1715-0009

Air Defense Electronic Warfare

Course Number: 2G-F3.

Location: Air Defense School, Ft. Bliss, TX.

Length: 3 weeks (104 hours).

Exhibit Dates: 8/66-9/72.

Objectives: To provide commissioned officers and warrant officers with a general knowledge of electronic countermeasures, use of air defense radars in an ECM environment, and electronic warfare training devices and techniques.

Instruction: Electronic warfare, intelligence, security, and countermeasures; radar detection; AN/MPQ-T1 simulator.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/73).

Related Occupation Codes: 222B; 251B.

AR-1715-0010

Senior Special Electrical/Electronic Device Repair

Course Number: 198-35E30.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 14 weeks (571 hours). *Version 2:* 10 weeks (319 hours). *Version 3:* 9 weeks (319 hours).

Exhibit Dates: *Version 1:* 3/78-Present. *Version 2:* 1/74-2/78. *Version 3:* 2/66-12/73.

Objectives: To train enlisted personnel in organizational and general support maintenance on electronic distance-measuring and orientation equipment and in general support maintenance on night vision equipment.

Instruction: *Version 1:* Course includes operation, maintenance, and adjustment of night vision, mine detection, battlefield illumination, electronic distance measuring and azimuth orientation equipment. *Version 3:* Operation, maintenance, and adjustment of night vision equipment; advanced electronic instrumentation; electronic distance-measuring equipment; electronic azimuth orientation equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electronics (9/79); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics (9/79); in the upper-division baccalaureate category, 1 semester hour in electronics (9/79). *Version 2:* In the vocational certificate category, 6 semester hours in electronics (9/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (9/79); in the upper-division baccalaureate category, 1 semester hour in electronics (9/79).

Version 3: In the vocational certificate category, 6 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (11/73); in the upper-division baccalaureate category, 1 semester hour in electronics (11/73).

Related Occupation Codes: 32E.

AR-1715-0011

ENLISTED AIR DEFENSE ELECTRONIC WARFARE

Course Number: 104-F6.

Location: Air Defense School, Ft. Bliss, TX.

Length: 3 weeks (120 hours).

Exhibit Dates: 11/68–9/72.

Objectives: To familiarize enlisted personnel with electronic countermeasures and the use of air defense radars.

Instruction: Jamming, target detection, and use of radars in electronic countermeasures; electronic warfare training devices and techniques.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (11/73).

Related Occupation Codes: 16C.

AR-1715-0012

TACTICAL ELECTRONIC EQUIPMENT MAINTENANCE (EE-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC

(Tactical Communications Chief Noncommissioned Officer (NCO) Basic)

(Tactical Communications Chief Noncommissioned Officer (NCO) Basic)

Course Number: 1-31-C40B; 1-EE-C40D; 101-31G40-EC.

Location: Field Artillery School, Ft. Sill, OK.

Length: 12–16 weeks (407–607 hours).

Exhibit Dates: 7/71–6/76.

Objectives: To provide selected personnel with a working knowledge of those duties required to perform as noncommissioned officers in grades E5, E6 and E7.

Instruction: Electronic warfare; radiotelephone procedures; leadership; psychological operations; techniques of instruction; map reading; rappelling and river crossing; mines and demolitions; field artillery subjects; communications systems; wire line construction; field telephones, switchboards; FM radio equipment; radio antenna principles; radio net operation; radio telephone procedures; teletypewriter procedures; online cipher machine; radio set AN/GRC-19; radioteletypes AN/GRC-46, AN/VRC-29, AN/VSC-1; transmitter; multimeters; troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (11/73).

Related Occupation Codes: 31B; 31D; 31E; 31G; 31K.

AR-1715-0013

BASIC ELECTRONICS MAINTENANCE

Course Number: 102-F10.

Location: Security Agency School, Ft. Devens, MA.

Length: 26 weeks (844 hours).

Exhibit Dates: 8/70–Present.

Objectives: To train students to analyze basic electronic circuits, use basic test equipment, and maintain general intercept receivers, couplers and demodulators, and single and dual track analog recorders.

Instruction: Basic electronics; arithmetic; scientific notation; equations; AC/DC circuit analysis; introduction to electricity; resistors; Ohm's Law; testing and troubleshooting AC/DC circuits; meters; multimeters; vacuum tube voltmeters; magnetism and electromagnetism; audio signal generators; oscilloscope operation; capacitance; inductance; RLC circuits; testing of components; diodes; triodes; transistor fundamentals; electron tube test sets; power supply circuits; amplifier circuits; audio and IF transformers; RF generators; receiver circuits; wiring diagrams; superheterodyne receiver; solid state; printed circuits; waveforming circuits. Material heavily laboratory oriented.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (11/73).

Related Occupation Codes: 33C; 33D; 33F; 33G.

AR-1715-0014

COMMAND AND STAFF OFFICER ELECTRONIC WARFARE

Course Number: 2G-F8.

Location: Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: 3 weeks (128–143 hours).

Exhibit Dates: 4/71–Present.

Objectives: To provide commissioned officers and civilians with a working knowledge of the fundamentals of electronic warfare (EW), and a general knowledge of cover and deception (C & D).

Instruction: EW aggressive measures/combat power; informative measures; order of battle; protective measures; EW resources and military operations; EW planning exercise; joint services EW seminar; C & D operations and CS sensors; C & D planning exercise.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (11/73).

AR-1715-0015

LIGHT AIR DEFENSE SYSTEM ELECTRONIC REPAIR

Course Number: *Version 1:* 101-27F20. *Version 2:* 101-27F20. *Version 3:* 121-27F20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 29 weeks (1008 hours). *Version 2:* 27–30 weeks (1072 hours). *Version 3:* 25–30 weeks (897–1072 hours).

Exhibit Dates: *Version 1:* 9/74–Present. *Version 2:* 11/72–8/74. *Version 3:* 8/68–10/72.

Objectives: To train enlisted personnel to perform direct and general support maintenance on the Vulcan air defense system, Chaparral missile system, and associated organizational and support maintenance test equipment.

Instruction: *All Versions:* Missile electronic subjects including: series, parallel, series-parallel, DC and AC resistor circuits; magnetism; inductance, capacitance and impedance; transformers; transients in RC and LR circuits; series and parallel resonance; missile soldering procedures; missile transistors; power supplies; test equipment; electro-mechanical control devices; introduction to digital computers; introduction to logic symbology. *Version 1:* Lecture and laboratory exercises including basic electricity concepts of work, energy, and power; DC and AC circuit theory–series, parallel, series-parallel, inductive, capacitive, and LCR circuits; series and parallel resonant circuits; transformers and power supplies; simplified explanation of RC and LC transients and sine-wave oscillators; soldering techniques and practices; elementary theory of semiconductor devices and circuits including FET's; and Chaparral and Vulcan system and test equipment maintenance and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 15 semester hours in basic electronics and troubleshooting (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics and troubleshooting (3/75). *Version 2:* In the vocational certificate category, 36 semester hours in electronics or full semester-hour equivalent to complete certificate program in electronics (11/73); in the lower-division baccalaureate/associate degree category, 12 semester hours in electronics (11/73); in the upper-division baccalaureate category, 4 semester hours in electronics (11/73). *Version 3:* In the vocational certificate category, 36 semester hours in electronics or full semester-hour equivalent to complete certificate program in electronics (11/73); in the lower-division baccalaureate/associate degree category, 12 semester hours in electronics (11/73); in the upper-division baccalaureate category, 4 semester hours in electronic circuitry, and credit in electronic laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 27F.

AR-1715-0016

TACTICAL ELECTRONIC EQUIPMENT MAINTENANCE (EE-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED

(Tactical Electronic Maintenance (EE-CMF) Noncommissioned Officer (NCO) Advanced)

Course Number: 1-EE-C42B.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 10–11 weeks (365–383 hours).

Exhibit Dates: 5/73–Present.

Objectives: To prepare electronic equipment maintenance supervisors for top-level management positions.

Instruction: General military subjects; command and staff operations; combined arms; special weapons and CBR operations; applied communications; leadership; administration and management; combat service support operations; combat support service; logistics; satellite communications; communications security; fixed station radio communications; data processing and data communications; and dial exchange equipment.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (5/75).

Related Occupation Codes: 26L; 31U; 35R.

AR-1715-0017

TACTICAL ELECTRONIC EQUIPMENT MAINTENANCE (EE-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: 1-EE-C40B.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 8–12 weeks (286–414 hours).

Exhibit Dates: 5/73–Present.

Objectives: To train students with electronics backgrounds to perform supervisory duties in communications equipment maintenance.

Instruction: General military subjects, including military justice and race relations; maintenance and supply management; introduction to communications; communication circuit requirements; system management; communication facilities.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (5/75).

Related Occupation Codes: 26L; 31S; 31T.

AR-1715-0018

EW/Signal Intelligence Noncommunications Intercept

(Electronic Warfare (EW) Signal Intelligence Noncommunications Interceptor-Analyst)

(Electronic Warfare (EW) Cryptologic Noncommunications Interceptor-Analyst)

(Electronic Warfare (EW) Operator (Noncommunications ECM))

Course Number: 233-98J10; 233-98J20.

Location: Intelligenc School, Ft. Devens, MA; Security Agency School, Ft. Devens, MA.

Length: 13-15 weeks (407-587 hours).

Exhibit Dates: 3/53-Present.

Objectives: To teach selected students to locate, record, and identify noncommunications electromagnetic emissions, to familiarize them with signal and operations characteristics of electronic equipment, and to provide them with an introduction to noncommunications jamming techniques.

Instruction: Radiotelephone net operations; prefixes, scientific notation and logarithms; direct and alternating currents; modulation and transmitters; oscilloscopes; receivers; recorders; signal recognition; operations; search radar; fire control radar; navigational aids; preventive maintenance; missile ranges; launch configuration; telemetry; fundamentals of jamming; introduction to electronic warfare.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (11/73).

Related Occupation Codes: 98J.

AR-1715-0019

Tactical Electronic Equipment Maintenance (EE-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 1-EE-C40A.

Location: Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA.

Length: 8-12 weeks (286-475 hours).

Exhibit Dates: 2/73-Present.

Objectives: To train enlisted personnel with a background in electronic equipment maintenance to perform duties at the supervisory level.

Instruction: Command tactics; career management training; field wire operations; antenna operations; lineman operations; cable splicer operation; switchboard oeprations; circuit controller operations; radio relay and carrier operations; communications center operations; data terminal operations; radio teletypewriter and field radio operations; maintenance; aircraft electronic equipment; installation of electronic equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in telecommunications and 1 in telecommunications laboratory (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in telecommunications laboratory (5/75).

Related Occupation Codes: 31B; 31E; 31J; 31L; 31M; 31N; 35B; 35K; 35L; 35M; 36C; 36D; 36E; 36G; 36K.

AR-1715-0020

Instrument Calibration and Maintenance (35-CMF) Noncommissioned Officer (NCO) Basic

(Tactical Electronic Equipment Maintenance (EE-CMF) Noncommissioned Officer (NCO) Basic)

Course Number: 1-351-C40; 1-EE-C40C.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8-10 weeks (250-408 hours).

Exhibit Dates: 6/73-Present.

Objectives: To train students with a background in electronic equipment maintenance to perform those duties required of noncommissioned officers.

Instruction: Career management; communication skills; basic data; military symbols; combat surveillance; management; tactical signal communications; supply and maintenance; radio system operation and controls; radiotelephone procedures.

Credit Recommendation: Credt is not recommended because of the military specific nature of the course (11/73).

Related Occupation Codes: 35H20; 35H; 35J.

AR-1715-0021

Communications Operations (CO-CMF) NCO Basic (USASCS)

Course Number: 5-CO-C40B.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12 weeks (414 hours).

Exhibit Dates: 4/73-Present.

Objectives: To train enlisted personnel as communications operators in signal units.

Instruction: Conferences and practical exercises in communications, communication circuit requirements, general military subjects, maintenance and supply management, field training exercises, and systems management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in communications (2/74).

Related Occupation Codes: 72G.

AR-1715-0022

Corporal Computer Repair

(SSM Computer Repair)

Course Number: 9-R-242.1; 9-E-59.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 12-13 weeks (420-455 hours).

Exhibit Dates: 12/55-12/68.

Objectives: To train electronic repair helpers to repair and maintain the Corporal computer system and associated equipment.

Instruction: Lectures and laboratories in fundamental computer circuits, Corporal computers, power supplies and accessory equipment, ordnance test equipment, and field maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity or electronics, 1 in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electricity or electronics (3/74).

AR-1715-0023

Position Fixing Navigation Equipment Repair

Course Number: 102-F2.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 3 weeks (106 hours).

Exhibit Dates: 6/66-12/68.

Objectives: To train enlisted personnel in the maintenance and repair of navigational equipment.

Instruction: Lectures and practical experience in hyperbolic area coverage navigation, receiving equipment, flight log and system support, receiver circuit analysis, and installation and system analysis.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0024

Fire Distribution Integration Systems Repair (AN/GSG-5)

(Fire Distribution Integration Systems Repair (AN/GSG-5(V) and 6))

(Fire Distribution Integration Systems Repair (AN/GSG-5 and 6))

Course Number: 4B-F8; 150-25D20; 150-362.1; 11-R-F15.

Location: Air Defense School, Ft. Bliss, TX; Signal Fire Distribution Systems Training Activity, Ft. Bliss, TX.

Length: 22-27 weeks (836-962 hours).

Exhibit Dates: 11/61-Present.

Objectives: To train warrant officers and enlisted personnel to perform organizational and support maintenance on fire distribution integration systems.

Instruction: Lectures and laboratories in fundamentals of digital logic; binary number systems; logic elements; functions and electronic logic units; coordinate data systems; modulation techniques; gates, multivibrators, and read amplifiers; trigger circuits, delay lines, and switches; magnetic memory storage elements; power supplies and troubleshooting; sweep circuits; video and tag presentation; computer control of fire distribution systems; BPL and SAGE subsystems; and comprehensive tie-in of systems and subsystems.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electronics, digital logic, and switching, and 3 in electronics or logic laboratory (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours as a technical elective in electronics, digital logic, and switching, and 2 as a technical elective in electronics or logic laboratory (3/74); in the upper-division baccalaureate category, 3 semester hours as a technical elective in electronics, digital logic, and switching, and 1 as a technical elective in electronics or logic laboratory (3/74).

Related Occupation Codes: 25D.

AR-1715-0025

Field Artillery Digital Automatic Computer (FADAC) Mechanics

Course Number: 101-AS1F7; 101-31B30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (73-95 hours).

Exhibit Dates: 9/72-Present.

Objectives: To train field radio mechanics to maintain M18 gun direction computers and ancillary equipment.

Instruction: Lectures and practical exercises in operation, organizational maintenance, and troubleshooting of M18 gun direction computers, M36 radar chronograph, and associated equipment.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 31B; 31Z.

AR-1715-0026

Supervisory Fixed Station Communications Maintenance

Course Number: 101-32B40; 101-32C40; 101-32D40; 101-32E40.

Location: Signal School, Ft. Monmouth, NJ.

Length: 25 weeks (932 hours).

Exhibit Dates: 4/66–12/68.

Objectives: To train enlisted personnel to supervise, coordinate, and participate in the operation and maintenance of a fixed communication facility.

Instruction: Lectures and practical exercises in the maintenance of a fixed communication facility, with special emphasis on electronic fundamentals. Course includes vacuum-tube and semiconductor circuits, advanced work in modulation and demodulation, wave-shaping networks, pulse and switching circuits, propagation and antenna systems, fixed-station communication systems, repair and installation practices, and use of test equipment, including frequency synthesizers, spectrum analyzers, and distortion meters.

Credit Recommendation: In the vocational certificate category, 30 semester hours in communications (or 15 in electronics, with additional credit awarded on the basis of institutional evaluation), 3 in shop management or supply management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68), 3 in shop management or supply management (6/74); in the upper-division baccalaureate category, 3 semester hours in shop management (12/68), 3 in supply management (12/68), and, for non-electrical-engineering majors, 10 in electronics (6/74).

Related Occupation Codes: 32B; 32C; 32D; 32E; 32Z.

AR-1715-0027

Supervisory Microwave Radio Maintenance

Course Number: 101-26L40.

Location: Signal School, Ft. Monmouth, NJ.

Length: 25 weeks (932 hours).

Exhibit Dates: 4/66–12/68.

Objectives: To train enlisted personnel to supervise the repair, installation, and maintenance of microwave communication systems.

Instruction: Lectures and practical exercises in the supervision of microwave radio maintenance at the advanced level. General instruction includes electronics fundamentals, vacuum tube circuits, semiconductor devices and their application to pulse and high-frequency circuits. Advanced course work includes amplitude and frequency modulation, multiplexing, pulse code modulation, communication system requirements and practices, special microwave systems, satellite communication systems, waveguides, antennas, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 30 semester hours in communications, or 15 in maintenance management or electronics, with additional credit awarded on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in communications, and additional credit on the basis of institutional evaluation (12/68); in the upper-division baccalaureate category, 3 semester hours in maintenance management, 2 in electronics, and credit in electrical laboratory on the basis of institutional evaluation, or 10 semester hours in electronics for non-electrical-engineering majors (3/74).

Related Occupation Codes: 26L.

AR-1715-0028

Tropospheric Scatter Communication Equipment Repair

Course Number: 11-R-F17.

Location: Signal School, Ft. Monmouth, NJ.

Length: 5 weeks (190 hours).

Exhibit Dates: 5/62–12/68.

Objectives: To train microwave radio repairmen to install, maintain, and repair Collins tropospheric scatter communications equipment.

Instruction: Lectures and laboratories in the circuit analysis and operation of UHF converter amplifiers, traveling-wire amplifiers, power amplifiers, IF assemblies, and power supplies; functional block-diagram circuit analysis for systematic care, servicing, and inspection of Collins equipment; and test equipment, including multimeters, oscilloscopes, and Collins frequency synthesizers.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory, and additional credit in electronics laboratory on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, and additional credit in electronics laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (3/74).

AR-1715-0029

1. Tactical Solid State Telephone Equipment Repair
2. Manual Cordless Switchboard SB-3082(V)1/GT Repair

Course Number: 622-F16.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 6 weeks (209 hours). *Version 2:* 3 weeks (100 hours).

Exhibit Dates: *Version 1:* 11/74–Present. *Version 2:* 7/73–10/74.

Objectives: To train telephone repairmen to install, operate, maintain, and repair the manual cordless switchboard.

Instruction: Lectures emphasizing practical experience in manual cordless switchboard installation, operation, and repair, including circuit cord assembly, removal, replacement, and voltage measurement; internal wiring continuity checking; troubleshooting internal faults; front panel parts removal and replacement; power supply subassembly, testing, and troubleshooting; and use of telephone set, variable transformer, battery tester, multimeter, and tool kit.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in telephone system maintenance (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (5/75). *Version 2:* In the vocational certificate category, 2 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

Related Occupation Codes: 36G; 36H.

AR-1715-0030

Tropospheric Scatter Terminal REL-2600 Repair

Course Number: 101-F9.

Location: Signal School, Ft. Monmouth, NJ.

Length: 7 weeks (266 hours).

Exhibit Dates: 10/67–12/68.

Objectives: To train microwave radio repairmen to install and maintain REL-2600 tropospheric scatter terminals.

Instruction: Lectures and practical exercises in theory of frequency division multiplexing; GH2 transmitters; receiver circuits; functional analysis, using block and level diagrams to trace signal paths; safety precautions; start-up procedures; alignment; tuning; troubleshooting; servicing; and equipment operation, including distortion analyzer, panel meters, special test fixtures, test oscillators, sweep generators, VTUMs, RF power meters, VSWR monitor, and dummy loads.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 3 in electronics laboratory (3/74).

Related Occupation Codes: 26L.

AR-1715-0031

Basic Fixed Plant Carrier Equipment Repair

Course Number: 11-R-274.0.

Location: Signal School, Ft. Monmouth, NJ.

Length: 15 weeks (546 hours).

Exhibit Dates: 7/63–12/68.

Objectives: To train enlisted personnel to maintain and repair fixed-station teletypewriters, telephones, and telegraph carrier equipment.

Instruction: Lectures and practical exercises in basic electricity and electronics, telephone and telegraph carrier fundamentals, fixed-station integrated communication systems, and semiconductor fundamentals.

Credit Recommendation: In the vocational certificate category, 15 semester hours in electronics, and credit in electricity on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, and credit in electricity on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electricity on the basis of institutional evaluation (3/74).

AR-1715-0032

Air Traffic Control Communications Set AN/FSQ-75 Repair

Course Number: 102-F7.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 6 weeks (218 hours).

Exhibit Dates: 1/69–Present.

Objectives: To train avionics equipment repairmen to repair and maintain AN/FSQ-75 air traffic control communications sets.

Instruction: Lectures and practical exercises in AN/FSQ-75 communications set maintenance, repair, test equipment use, operational checks, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in avionics laboratory, additional credit in electronics laboratory on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 35L; 35P.

AR-1715-0033

1. ELECTRONIC DEVICES REPAIR
2. ELECTRONIC DEVICES REPAIR (Electronic Instrument Repair)

Course Number: *Version 1:* 198-295;2 11-R-295.2. *Version 2:* 11-E-34.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 16 weeks (584 hours). *Version 2:* 18–26 weeks (660–964 hours).

Exhibit Dates: *Version 1:* 12/59–12/68. *Version 2:* 2/55–11/59.

Objectives: To train personnel to inspect, test, adjust, and repair electrical equipment.

Instruction: Lectures and practical experience in AC and DC circuit analysis, electric tubes and amplifiers, oscillators, instrument calibration, and oscilloscope operation and calibration.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electricity and electronics, and credit in electronics laboratory on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity and electronics, and credit in electronics laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity and electronics, and credit in electronics laboratory on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 3 semster hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity and electronics, and credit in electronics laboratory on the basis of institutional evaluation (3/74).

AR-1715-0034

FIRE CONTROL COMPUTER REPAIR (FADAC Radar Technician (Marine))

Course Number: 113-34G10; 113-34G20.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* Self-paced 9–20 weeks (285–629 hours). *Version 2:* 27 weeks (877 hours). *Version 3:* 27 weeks (968 hours). *Version 4:* 25 weeks (946 hours).

Exhibit Dates: *Version 1:* 4/76–Present. *Version 2:* 4/74–3/76. *Version 3:* 6/69–3/74. *Version 4:* 9/66–5/69.

Objectives: To train enlisted personnel to operate, maintain, and repair field artillery digital automatic computer systems.

Instruction: *All Versions:* Lectures and laboratories in DC and AC circuits, electronics, transistor devices and circuits, Boolean algebra, logic gates and circuits, machine language programming, and system maintenance and troubleshooting. *Version 1:* Training for Army personnel includes lectures, laboratories and practical experience in the fundamental concepts of electricity, soldering techniques semiconductors, digital computer functions, oscilloscopes, laser theory, laser range finders, viewer computers, optics and operation, testing, troubleshooting and repair of various types of automatic fire control equipment. Marine Corps personnel learn operation and servicing of signal data reproducer, computer logic unit, and gun directon computer. *Version 2:* Topics cover the technical fundamentals to isolate malfunctions and troubleshoot AC and DC circuits, amplifier circuits, RC and LR circuits, sinewave oscillators, and semiconductor circuits; basic logic circuit, arithmetic type programming, and computer diagnosis and troubleshooting.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 10 semester hours in basic electricity and electronics, 4 in computer technology repair, for a total of 14 hours for Army personnel, or a total of 3 in computer technology for Marine Corps personnel (1/78) *Version 2:* In the vocational certificate category, 6 semester hours in basic electricity and electronics and 6 in computer technology (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics (6/75). computer technology repair, for a total of 14 semester hours for Army personnel, or a total of 3 semester hours in computer technology repair for Marine Corps personnel (1/78). *Version 3:* In the vocational certificate category, 6 semester hours in computer technology, 6 in electricity and electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer technology, 2 in electricity and electronics, and, on the basis of institutional evaluation, credit in electrical laboratory (3/74); in the upper-division baccalaureate category, 2 semester hours in digital computers, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 4:* In the vocational certificate category, 6 semester hours in computer technology, 6 in electricity and electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer technology, 2 in electricity and electronics, and, on the basis of institutional evaluation, credit in electrical laboratory (3/74); in the upper-division baccalaureate category, 2 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 34G; 09B.

AR-1715-0035

WEAPONS MONITORING CENTER REPAIR

Course Number: 4B-F9; 150-25G20; 150-364.1; 11-N-364.1.

Location: Air Defense School, Ft. Bliss, TX.

Length: 32 weeks (1140–1208 hours).

Exhibit Dates: 12/63–Present.

Objectives: To train enlisted personnel and warrant officers to maintain the data processing and display equipment in weapons monitoring centers.

Instruction: Lectures and laboratories in number systems, logic gates and circuits, electronic test equipment, and ancillary data handling and display equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer technology, 2 in electricity and electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer technology, and credit in computer or electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, 1 semester hour in digital computers, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 25G.

AR-1715-0036

AUTOMATIC DATA PROCESSING (ADP) REPAIR, PHASE I—COMPUTER TECHNOLOGY

Course Number: 150-34D20 (Phase I).

Location: *Version 1:* Signal School, Ft. Gordon, GA. *All Versions:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 18 weeks (637–675 hours). *Version 2:* 19 weeks (706 hours).

Exhibit Dates: *Version 1:* 4/75–Present. *Version 2:* 4/70–3/75.

Objectives: To train enlisted personnel to inspect, test, adjust, and repair automatic data processing equipment.

Instruction: Lectures and practical exercises in numbering systems, programming functions, logic gates, counters and registers, and electromechanical data processing equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in digital computer fundamentals and 2 in digital computer laboratory (5/75). *Version 2:* In the vocational certificate category, 2 semester hours in electricity, 4 in computer technology (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer technology (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 34D.

AR-1715-0037

1. SATELLITE COMMUNICATIONS GROUND STATION EQUIPMENT REPAIRMAN
2. SATELLITE COMMUNICATIONS TERMINAL REPAIR
3. SATELLITE COMMUNICATIONS TERMINAL REPAIR

Course Number: 102-26Y20.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 26–36 weeks (963–1338 hours). *Version 2:* 36 weeks (1282–1352 hours). *Version 3:* 36 weeks (1352 hours).

Exhibit Dates: *Version 1:* 7/76–Present. *Version 2:* 11/69–6/76. *Version 3:* 8/68–10/69.

Objectives: To train enlisted personnel to operate, inspect, test, and repair satellite communications terminal equipment.

Instruction: *All Versions:* Lectures and laboratories in electronic fundamentals, servo and data circuitry, telephone and telegraph terminal equipment, specialized test equipment, digital techniques and operations, radio communication subsystems and satellite communications terminals. *Version 1:* Course is divided into two phases: Phase I (10 weeks) includes instruction and practical exercises in troubleshooting and repair of power supplies, audio amplifiers, audio oscillators, pulse generators, transceivers and logic circuits. Phase II (26 weeks) consists of lectures and laboratories in servo and data circuitry, telephone and telegraph terminal equipment, specialized test equipment, digital techniques and operations, radio communications subsystems, and satellite communications terminals. Note: Students who have completed Modules 201, 202, 203, 4, 5/6, and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (26 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (36 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in satellite communication systems repair for students completing 26 weeks, or 6 semester hours in basic electronics and troubleshooting and 9 semester hours in satellite communication systems repair for students completing 36 weeks (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in communication systems for students completing either 26 or 36 weeks (see note above) (4/77). *Version 2:* In the vocational certificate category, 12 semester hours in electricity and electronics, 8 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 12 semester hours in electricity and electronics, 8 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68).

Related Occupation Codes: 26Y; 09B.

AR-1715-0038

Automatic Data Processing (ADP) Repair

(Automatic Data Processing System (ADPS) (FIELDATA) Repair)

Course Number: 150-34D20; 11-R-303.1.

Location: Signal School, Ft. Monmouth, NJ.

Length: 36–37 weeks (1344–1391 hours).

Exhibit Dates: 5/59–7/69.

Objectives: To train enlisted personnel to inspect, test, and repair automatic data processing equipment.

Instruction: Lectures and practical exercises in numbering systems, logic circuits and gates, programming, fundamental computer circuits, electrical fundamentals, system troubleshooting, and electromechanical data processing peripheral equipment.

Credit Recommendation: In the vocational certificate category, 4 semester hours in computer technology, 2 in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in digital computers, and credit in computer laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 34D.

AR-1715-0039

1. Automatic Data Processing (ADP) Auxiliary Equipment Repair
2. Automatic Data Processing System (ADP) (FIELDATA) Auxiliary Equipment Repair
3. Automatic Data Processing System (ADPS) (FIELDATA) Auxiliary Equipment Repair

Course Number: *Version 1:* 150-34C20. *Version 2:* 11-R-302.2. *Version 3:* 11-R-302.2.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 25 weeks (934 hours). *Version 2:* 25 weeks (926 hours). *Version 3:* 27 weeks (1002 hours).

Exhibit Dates: *Version 1:* 9/68–Present. *Version 2:* 9/64–8/68. *Version 3:* 5/59–8/64.

Objectives: To train enlisted personnel to inspect, test, and repair stored-program computer auxiliary equipment.

Instruction: Lectures and laboratories in basic electricity and electronics theory, measurements on electronic circuits, switching circuits, and computer applications in specific auxiliary equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electricity or electronics, 8 in computer systems (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, 4 in computer systems (3/74); in the upper-division baccalaureate category, 2 semester hours in computer systems (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics, 8 in computer systems (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, [illegible] semester hours in computer systems, and additional credit in computer systems on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics, 8 in computer systems (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in computer systems, and additional credit in computer systems on the basis of institutional evaluation (3/74).

Related Occupation Codes: 34C; 34D.

AR-1715-0040

Ballistic Missile Digital Computer Repair (Pershing)

Course Number: 150-379.1; 9-S-379.1; 9-S-F37.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 27–29 weeks (991–1065 hours).

Exhibit Dates: 7/62–12/68.

Objectives: To train enlisted and civilian personnel to inspect, test, and repair Pershing fire data computer systems.

Instruction: Lectures and laboratories in AC and DC circuits, vacuum tube and transistor devices and circuits, Boolean algebra, logic circuits, and machine language programing for the Pershing fire data control computer.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer technology, 6 in electricity and electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in digital computers, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0041

Terminal Data Link Fire Unit Integration Facilities (FUIF) Repair

Course Number: 4B-F6; 150-25E20; 11-N-361.1.

Location: Air Defense School, Ft. Bliss, TX.

Length: 12–14 weeks (436–490 hours).

Exhibit Dates: 5/64–12/68.

Objectives: To train warrant officers and enlisted personnel who have experience in electronic engineering to maintain fire unit integration facilities.

Instruction: Lectures and practical exercises in fire unit integration facilities field maintenance, including FUIF introduction and power supplies, AN/TSQ08 transmitter and receiver and ground slant computer, data converter, TYA-13 modification, and associated equipment and system analysis.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

AR-1715-0042

Automatic Tape Processing Equipment

Course Number: 160-F3.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 10 weeks (366 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train typewriter equipment repairmen in automatic multiple-address routing systems, tape recall systems, and data transfer systems maintenance.

Instruction: Lectures and practical exercises in automatic multiple-address routing system data transfer system, and tape recall system operation, mechanical adjustment, block diagrams, logic, power distribution, memory operation and adjustment, program loading, system timing, registers, counters, decoders, preventive maintenance, and troubleshooting procedures.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 31J.

AR-1715-0043

Data Communications Terminal Specialist

(Digital Subscriber Terminal Equipment (DSTE) Operator)

Course Number: 580-72F20.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 3–9 weeks (107–400 hours).

Exhibit Dates: 1/69–12/74.

Objectives: To train enlisted personnel in data communications terminal operations and associated system configurations.

Instruction: Lectures and practical exercises in communications introduction, processing of outgoing and incoming messages, maintenance of communications center files, COMSEC material control, and operator maintenance of teletypewriter and associated equipment.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 72F.

AR-1715-0044

Automatic Data Processing (ADP) Repair, Phase II-Card Processors U-1005 and U-1004/DLT-6 Repair

(Card Processors U-1005 and U-1004/DLT-6 Repair)

Course Number: 150-34D20 (Phase II); 150-F3.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 18 weeks (678 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train enlisted personnel to inspect, test, adjust, and repair card processors.

Instruction: Lectures and practical exercises in familiarization with U-1004 and U-1005/DLT-6 processors, card processor input-output equipment, paper tape, equipment, and system maintenance.

Credit Recommendation: In the vocational certificate category, 6 semester hours in digital electronics and 2 in digital electronics laboratory (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in digital electronics laboratory (5/75).

Related Occupation Codes: 34B; 34D.

AR-1715-0045

1. NCR-500 Computer Repair
2. Automatic Data Processing (ADP) Repair, Phase III—NCR-500 Computer Repair

(NCR-500 Computer Repair)

Course Number: *Version 1:* 150-34E20. *Version 2:* 150-34D20 (Phase III); 150-F4.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 33 weeks (1229 hours). *Version 2:* 18–19 weeks (676–678 hours).

Exhibit Dates: *Version 1:* 6/76–Present. *Version 2:* 2/69–5/76.

Objectives: To train qualified ADPS repairmen to inspect, test, and repair the NCR-500 computer.

Instruction: Lectures and practical exercises in NCR-500 computer inspection, testing, and repair, including programming orientation; 517 processor, power supply, block diagram, cabling, timing, memory configuration, auxiliary register logic, loading, decoding, circuitry, malfunctions, testing, preventive maintenance, adjustment, and repair; 590 console operation, troubleshooting and maintenance of keyboard, binary switch, typewriter, leading frame, and carriage controls; 581/582 card reader and controller; 576 card punch and printer; and peripheral equipment operation, preventive maintenance, troubleshooting, and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in digital circuits; in the lower-division baccalaureate/associate degree category, 3 semester hours in digital circuits laboratory and 3 in computer programming (4/77). *Version 2:* In the vocational certificate category, 6 semester hours in digital circuits and 2 in digital circuits laboratory (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in digital circuits laboratory (5/75).

Related Occupation Codes: 34D; 34E; 34Z.

AR-1715-0046

Automatic Data Processing (ADP) Repair, Phase VI—Automatic Digital Message Switching Center (ADMSC) Repair

Course Number: 150-34D20 (Phase VI).

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 11 weeks (388 hours).

Exhibit Dates: 3/73–Present.

Objectives: To train qualified ADP repairmen to supervise the maintenance of automatic digital message switching centers.

Instruction: Lectures and practical exercises in automatic digital message switching center maintenance, including ADMS and ASC equipment operation, preventive maintenance, and troubleshooting procedures; and communication and technical control facility operating procedures, inspection, and testing.

Credit Recommendation: In the vocational certificate category, 3 semester hours in digital computer systems and 1 in digital computer laboratory (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in digital computer laboratory (5/75).

Related Occupation Codes: 34D.

AR-1715-0047

Satellite Communications (SATCOM) Terminal AN/TSC-54 Repair

Course Number: 102-F6.

Location: Signal School, Ft Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 8–10 weeks (298–366 hours).

Exhibit Dates: 8/68–Present.

Objectives: To train enlisted personnel to inspect, test, and repair the AN/TSC-54 satellite communications terminal.

Instruction: Lectures and practical exercises in satellite communications terminal inspection, testing, and repair, including system familiarization, transmitter and receiver operation and repair, and antenna system inspection and repair, with emphasis on servicing techniques.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (8/79).

Related Occupation Codes: 26Y.

AR-1715-0048

Airborne Radio Direction Finding

Course Number: 3B-F5.

Location: Security Agency School, Ft. Devens, MA.

Length: 4 weeks (146 hours).

Exhibit Dates: 10/67–Present.

Objectives: To provide instrument flight-rated officers with a general knowledge of airborne radio direction-finding systems.

Instruction: Lectures in airborne radio direction-finding equipment and techniques, and direction-finding plotting exercises and controlled practical exercises.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

AR-1715-0049

Field Radio Relay Equipment Repair, Skill Development Base

Course Number: 101-31L20-I.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 13 weeks (517 hours).

Exhibit Dates: 11/68–Present.

Objectives: To train field radio equipment repairmen to perform as supervisors and technicians.

Instruction: Lectures and practical exercises in leadership and training, small-unit tactics, tactical field exercises, electronics, printed circuit test and repair, radio set AN/GEC-50, and maintenance management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics for non-electronics majors (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics for non-electronics majors (3/74).

Related Occupation Codes: 31L.

AR-1715-0050

Automatic Dial Central Office AN/FTC-31

Course Number: 622-F1.

Location: Signal School, Ft. Monmouth, NJ.

Length: 14 weeks (478 hours).

Exhibit Dates: 7/68–Present.

Objectives: To train enlisted personnel to maintain automatic dial central office exchanges.

Instruction: Lectures and practical exercises in decimal, binary, and octal numbering systems; logic gating; semiconductor theory and integrated circuits; digital logic and ferrite core memory; use of test equipment; and system analysis and troubleshooting.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics (3/74).

Related Occupation Codes: 36H.

AR-1715-0051

Manual Central Office Repair, Skill Development Base

Course Number: 622-36G20-I.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 12 weeks (479 hours).

Exhibit Dates: 11/68–Present.

Objectives: To provide telephone central office repairmen with knowledge and skills necessary to perform management and supervisory functions at mobile telephone central office facilities.

Instruction: Lectures and practical exercises in leadership and civil affairs orientation; maintenance supply and records procedures; generator sets operation; and central office group telephone, manual telephone, tactical switchboards, and telephone wire line-testing procedures.

Credit Recommendation: In the vocational certificate category, credit in electronics on the basis of institutional evaluation (3/74).

Related Occupation Codes: 36G; 36H.

AR-1715-0052

Radio Set AN/FRC-109 Repair

Course Number: 101-F8.

Location: Signal School, Ft. Monmouth, NJ.

Length: 6 weeks (228 hours).

Exhibit Dates: 10/67–12/68.

Objectives: To train microwave radio repairmen to maintain AN/FRC-109 radio sets.

Instruction: Lectures and practical exercises in voice and teletype multiplexing; transmitter, receiver, order-wire, and alarm system maintenance; and integrated wideband communication system familiarization.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics or electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics or electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electronics or electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 26L.

AR-1715-0053

1. Multichannel Communications

EQUIPMENT OPERATOR
2. RADIO RELAY AND CARRIER ATTENDANT
3. RADIO RELAY AND CARRIER ATTENDANT
4. RADIO RELAY AND CARRIER ATTENDANT
5. RADIO RELAY AND CARRIER OPERATION

Course Number: *Version 1:* 31M10-CELT; 202-31M20. *Version 2:* 202-31M20. *Version 3:* 202-31M20. *Version 4:* 202-293.1. *Version 5:* 11-R-293;1 11-E-46.

Location: Southeastern Signal School, Ft. Gordon, GA; Signal School, Ft. Gordon, GA.

Length: *Version 1:* 10–15 weeks (470 hours). *Version 2:* 16 weeks (586–714 hours). *Version 3:* 14 weeks (511 hours). *Version 4:* 12 weeks (437 hours). *Version 5:* 8 weeks (280 hours).

Exhibit Dates: *Version 1:* 6/76–Present. *Version 2:* 8/69–5/76. *Version 3:* 2/68–7/69. *Version 4:* 2/66–1/68. *Version 5:* 4/57–1/66.

Objectives: To train enlisted personnel to install, operate, and maintain field radio relay and carrier systems and associated equipment.

Instruction: Lectures and practical exercises in installation, operation, and maintenance of radio sets, telephone systems, telegraph systems, antennas and generators, FDM systems, and PMC sets; area communications systems equipment maintenance; electronic warfare; and field exercises.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (3/74).

Related Occupation Codes: 31M; 31L; 31N.

AR-1715-0054

OV-1D (MOHAWK) SURVEILLANCE INFRARED REPAIR

Course Number: 104-F10.

Location: Intelligence School, Ft. Huachuca, AZ; Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: 5–11 weeks (153–385 hours).

Exhibit Dates: 6/72–Present.

Objectives: To train enlisted personnel to maintain the OV-1D (Mohawk) infrared surveillance system on aircraft and ground stations.

Instruction: Lectures and practical exercises in OV-1D (Mohawk) infrared surveillance system maintenance and repair, including infrared detecting set introduction; system interface alignment and symptom collection; and film drive circuit, magazine, sensor optics, and display and synchronization circuits maintenance.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 26N; 26W.

AR-1715-0055

1. FIXED STATION RECEIVER REPAIR
2. FIXED STATION RECEIVER REPAIR
3. FIXED STATION RADIO RECEIVER REPAIR

(Fixed Station Receiver Repair)

Course Number: *Version 1:* 101-32B20. *Version 2:* 101-32B20. *Version 3:* 11-R-271;1 11-E-44

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 28 weeks (1048 hours). *Version 2:* 25 weeks (934 hours). *Version 3:* 20–22 weeks (736–880 hours).

Exhibit Dates: *Version 1:* 9/70–12/72. *Version 2:* 1/69–8/70. *Version 3:* 9/54–12/68.

Objectives: To train enlisted personnel to install, operate, and repair fixed-receiver station equipment.

Instruction: *All Versions:* Lectures and practical exercises in electrical fundamentals; resistor, series, and parallel circuits; magnetics and electromagnetism; AC circuit reactance and series-parallel resonance; oscilloscope usage; signal generators and impedance bridge; basic amplifier theory; diodes, triodes, tetrodes, and pentodes; basic receiver theory, RF signal generators, oscillators, IF and RF stages, superheterodyning, and troubleshooting; antenna systems, propagation concepts, filters and mixers, BFOs, and AGC concepts; coupling methods; and single-sideband systems in transmitters and receivers. *Version 1:* Instruction includes transistor fundamentals, semiconductor physics and theory, PNP and NCN devices, amplifier configurations, biasing network, bistable and monostable multivibrators, FETs, and regulated power supplies. *Version 2:* Instruction includes transistor fundamentals, semiconductor physics and theory, PNP and NCN devices, amplifier configurations, biasing networks, bistable and monostable multivibrators, FETs, and regulated power supplies.

Credit Recommendation: *Version 1:* In the vocational certificate category, 18 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, 9 semester hours as an elective in electricity or electronics for non-electrical engineering majors, 6 for majors (3/74). *Version 2:* In the vocational certificate category, 18 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, 6 semester hours as an elective in electricity or electronics for non-electrical engineering majors, 4 for majors (3/74). *Version 3:* In the vocational certificate category, 9 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 32B.

AR-1715-0056

FIXED STATION RADIO REPAIR

Course Number: 101-32H20.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 23–33 weeks (848–1223 hours). *Version 2:* 40 weeks (1426 hours).

Exhibit Dates: *Version 1:* 8/76–Present. *Version 2:* 1/73–7/76.

Objectives: To train enlisted personnel to install, operate, and repair fixed-station radios and associated equipment.

Instruction: *All Versions:* Lectures and practical exercises in electrical and electronic fundamentals; pulse generator circuitry; logic circuitry; basic receiver electronics; generation of RF energy; transmitter circuitry; multiband receiver and converter circuitry; maintenance, troubleshooting, and repair of radio receiver set AN/FRR-79 and auxiliary equipment; and vacuum theory. *Version 1:* Course is divided into two phases: Phase I (10 weeks) includes laboratory and practical experience in the repair and maintenance of power supply, audio amplifiers, transceiver circuitry, and basic logic circuits. Phase II (23 weeks) covers generation of RF energy, transmitter circuitry multiband receiver and converter circuitry, maintenance, troubleshooting and repair of radio receiver sets R390A/URR, AN/FRR-41, transceiver AN/FRC-93, transmitter AN/FRT-93, and auxiliary equipment. Note: Students who have completed modules 1 through 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (23 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (33 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electronics laboratory for students completing 23 weeks or 3 semester hours in electricity or electronics and 6 semester hours in electricity or electronics laboratory for students completing 33 weeks (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics for students completing either 23 or 33 weeks (see note above) (4/77). *Version 2:* In the vocational certificate category, 16 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation (3/74).

Related Occupation Codes: 09B; 32H.

AR-1715-0057

1. FIXED STATION TRANSMITTER REPAIR
2. FIXED STATION TRANSMITTER REPAIR
3. FIXED STATION RADIO TRANSMITTER REPAIR

(Fixed Station Transmitter Repair)

Course Number: *Version 1:* 101-32C20. *Version 2:* 11-R-272.1. *Version 3:* 11-E-42.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 22 weeks (820 hours). *Version 2:* 21 weeks (774 hours). *Version 3:* 22–24 weeks (880–888 hours).

Exhibit Dates: *Version 1:* 4/69–12/72. *Version 2:* 3/59–3/69. *Version 3:* 9/54–2/59.

Objectives: To train enlisted personnel to install, operate, and repair fixed-station radio transmitters and associated equipment.

Instruction: Lectures and laboratories in electrical and electronic fundamentals (based on vacuum tubes); transmitter circuitry; introduction to antenna types and characteristics; fixed-station fundamentals; amplifier analysis; frequency-measuring and -keying equipment; high-power, single-channel radio transmitters; single-sideband transmitters; and fixed-station, integrated communications systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 10 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 9 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 10 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics (3/74), and credit in electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 32C.

AR-1715-0058

1. AN/TSQ-38 and AN/MSQ-18 Coder-Decoder Group Maintenance (AN/MSQ-18 Coder-Decoder Group Maintenance)
2. AN/MSQ-18 Battery Terminal Equipment Maintenance (AN/MSQ-18 Coder-Decoder Group Maintenance)

Course Number: *Version 1:* 4F-F1; 150-F1. *All Versions:* 44-N-F19.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 13 weeks (490–520 hours). *Version 2:* 14 weeks (480–494 hours).

Exhibit Dates: *Version 1:* 11/63–Present. *Version 2:* 2/59–10/63.

Objectives: To train qualified missile system repairmen to maintain and repair the AN/MSQ-18 coder-decoder.

Instruction: *All Versions:* Lectures and practical exercises in AN/MSQ-18 coder-decoder maintenance and repair, including block-diagram and circuit analysis; digital logic circuitry, including binary theory, negators, flip-flops, and flip-zero circuits; and troubleshooting procedures. *Version 1:* Instruction includes diodes, transistors, soldering techniques with semiconductors and printed or etched cards, hand tools usage, gates, switching circuits, basic mathematics, binary counters, shift registers, and logical algebra. *Version 2:* Instruction includes transistor theory, AN-OR gates, and core register.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electronics, 1 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, 1 in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 1 semester hour in electronics, 1 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, 1 in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0059

Communications-Electronics Maintenance Warrant Officer Intermediate

Course Number: 4-11-C30.

Location: Signal School, Ft. Monmouth, NJ.

Length: 23 weeks (713 hours).

Exhibit Dates: 9/70–Present.

Objectives: To teach signal warrant officers to operate and maintain communications-electronics equipment.

Instruction: Lectures and practical exercises in operation and maintenance of communications equipment and associated electronic instruments, including FM radio sets, navigational equipment, radar, satellite communications systems, multiplex systems, transmitters, TV equipment and components, film and tape systems, dial telephone central office switching system, and automatic digital message switching center.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in electricity or electronics for non-engineering majors (3/74).

Related Occupation Codes: 201A; 286A; 281A; 282A; 252A; 287A; 301A; 361A; 290A; 341A; 721A.

AR-1715-0060

Special Forces Base Communications Systems

Course Number: 101-F12.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 6 weeks (187–189 hours).

Exhibit Dates: 8/72–Present.

Objectives: To train enlisted pesonnel to install, operate, and perform preventive maintenance on Special Forces base communications systems.

Instruction: Lectures and practical exercises in the operations and components of communications systems, including radio teletypewriter and radio set components, tuning and cording, communications central equipment, and message center group components and operation. Technical training is limited to that necessary to perform preventive maintenance and to interconnect components for optimum performance. Operation and military considerations are emphasized throughout.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31E; 31Z; 32A; 72B.

AR-1715-0061

ECM/DF Systems Repairmen

Course Number: 102-33G20.

Location: Security Agency School, Ft. Devens, MA.

Length: 16 weeks (522 hours).

Exhibit Dates: 6/69–Present.

Objectives: To train intercept equipment repairmen to maintain and repair electronic countermeasure direction-finding equipment.

Instruction: Lectures and practical exercises in the installation, maintenance, and troubleshooting of electronic countermeasure direction-finding equipment, including various test sets, direction-finding principles, target transmitter operation, logic symbols and circuits, various tubes and antennas, generators, receivers, power systems, calibrators, and hydraulic systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory, and additonal credit in electrical laboratory on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 32B; 33G; 33Z.

AR-1715-0062

COMSEC Equipment MAIT

Course Number: 4C-F9; 160-F2.

Location: Signal School, Ft. Monmouth, NJ.

Length: 3 weeks (94 hours).

Exhibit Dates: 7/73–Present.

Objectives: To train technicians to maintain communications security equipment.

Instruction: Lectures and laboratories in the operation and maintenance of communications security equipment and in military instuction techniques.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31S; 31T; 32F; 32G; 31U; 290A; 341A; 721A.

AR-1715-0063

1. Senior Field Systems COMSEC Repair
2. Field Systems COMSEC Repair
3. Field Systems COMSEC Repair

Course Number: 160-31T30.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Gordon, GA. *Version 3 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 27–33 weeks (1007–1230 hours). *Version 2:* 27–33 weeks (998–1221 hours). *Version 3:* 33 weeks (1238 hours).

Exhibit Dates: *Version 1:* 2/77–Present. *Version 2:* 1/75–1/77. *Version 3:* 1/72–11/74.

Objectives: To train enlisted personnel to install, operate, and repair field systems communications security (COMSEC) equipment.

Instruction: *Version 1:* Course is divided into two phases. Phase I (6 weeks) includes solid state circuitry for power supplies, audio amplifiers, oscillators, and logic trainers. Phase II (27 weeks) covers soldering techniques and security equipment and specific military equipment theory and nomenclature. Note: Students who have completed modules 201, 202, 203, and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (33 weeks) of this course. *Version 2:* The 27-week course is concerned with the application of general troubleshooting techniques to specific military equipment. The 33-week course also contains general information concerning AC and DC circuit troubleshooting, with use of oscilloscope, UTVM, and pulse generators. Note: Students who have completed Modules 1, 2, 3 and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (27 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete Phases I and II (33 weeks). *Version 3:* Lectures and laboratories in electronic fundamentals (based on mathematics through trigonometry); DC and AC fundamentals, including resonance considerations, phase angles, and apparent power; rectification; power supplies; regulation transistors; FETs; Zener diodes; unijunction transistors; oscillators; amplifiers; pulse and switching circuits; and theory, maintenance, and repair of IFF radar systems and equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in precision soldering for students completing 27 weeks or 4 semester hours in basic electronics or troubleshooting and 2 semester hours in precision soldering for students completing 33 weeks (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronic circuit analysis and troubleshooting for students completing either 27 or 33 weeks (see note above) (4/77). *Version 2:* In the vocational certificate category, 1 semester hour in basic electronics laboratory for those students completing 27 weeks or 1 semester hour in basic electronics laboratory and 3 in basic electricity or electronics for students attending 33 weeks of the course (see note above) (5/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity or electronics for students attending 33 weeks of the course (see note above) (5/75). *Version 3:* In the vocational certificate category, 30 semester hours in electronics, and credit in electronics on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 20 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, 10 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31T; 31U.

AR-1715-0064

Radio Relay and Carrier Attendant Skill Development Base

Course Number: 202-31M40-I.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 13 weeks (517 hours).

Exhibit Dates: 12/68–12/71.

Objectives: To train radio relay and carrier attendants to perform and/or supervise the installation and operation of tactical radio relay stations.

Instruction: Lectures and practical exercises in installation, administrative supervision, and operation of tactical communications systems; small-unit tactics; tactical field exercises; and general military subjects.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (3/74).

Related Occupation Codes: 31M; 31Z.

AR-1715-0065

CRITICOMM Operator

Course Number: 580-F2.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 2 weeks (79 hours).

Exhibit Dates: 2/72–7/73.

Objectives: To train communications center specialists to operate CRITICOMM terminal and relay stations and to read Baudot five-level teletypewriter code.

Instruction: Lectures and practical exercises in CRITICOMM, message preparation and tape reading, message-handling procedures, and terminal and relay operations.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 72B.

AR-1715-0066

Television Equipment Repair Transition

Course Number: 11-R-285.1T.

Location: Signal School, Ft. Monmouth, NJ.

Length: 3 weeks (92 hours).

Exhibit Dates: 3/65–12/68.

Objectives: To train television equipment repairmen to maintain and repair solid-state video tape recorders.

Instruction: Lectures and laboratories in transistors, including introduction to semiconductors and semiconductor diodes, PNP and NPN devices, transistor circuitry, troubleshooting and repair procedures for transistorized equipment, and special-purpose semiconductor devices; and video tape recorders, including video tape recording principles, maintenance of video tape recorders, maintenance of color and auxiliary racks of video tape recorders, and operation of complete television systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics, 1 in electronics laboratory, and, on the basis of institutional evaluation, additional credit in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics, 1 in electronics laboratory (3/74).

AR-1715-0067

Field General COMSEC Maintenance

Course Number: 160-31S20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 13–15 weeks (471–542 hours). *Version 2:* 15 weeks (554 hours).

Exhibit Dates: *Version 1:* 8/74–Present. *Version 2:* 1/72–7/74.

Objectives: To train enlisted personnel to operate and maintain field general cryptographic equipment.

Instruction: *All Versions:* Lectures and laboratories in teletypewriter principles, communications security equipment, electronic tactical teletypewriter security equipment, speech security equipment, digital data regenerative repeaters, and maintenance procedures. *Version 1.* Note: Students who have completed Module 1 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (13 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (15 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic electricity and electronics and 2 semester hours in basic electrical laboratory for those students completing 15 weeks; or 3 semester hours in basic electricity and electronics and 1 in basic electrical laboratory for those students completing 13 weeks (see note above) (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory for those students completing 15 weeks; no credit for those students completing 13 weeks (see note above) (5/75). *Version 2:* In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31S.

AR-1715-0068

1. ADMSE Repairer
2. Automatic Digital Message Switch Equipment Repair
   (ADMSE Repair)
3. Automatic Data Processing (ADP) Repair, Phase V—ADMS Equipment Repair
   (ADMS Equipment Repair)
4. Automatic Data Processing (ADP) Repair, Phase V—ADMS Equipment Repair
   (ADMS Equipment Repair)

Course Number: *Version 1:* 150-34H20. *Version 2:* 150-34H20. *Version 3:* 150-34D20 (Phase V). *Version 4:* 150-34D20 (Phase V); 622-F5.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Gordon, GA. *Version 3 :* Signal School, Ft. Gordon, GA. *Version 4 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 39 weeks (1457 hours). *Version 2:* 39 weeks (1457 hours). *Version 3:* 20 weeks (734 hours). *Version 4:* 19–20 weeks (716–734 hours).

Exhibit Dates: *Version 1:* 8/78–Present. *Version 2:* 4/75–7/78. *Version 3:* 8/73–3/75. *Version 4:* 4/68–7/73.

Objectives: To train automatic digital programing repairmen to maintain the overseas Autodin, automatic digital message switch (ADMS).

Instruction: *Version 1:* Instruction in the basics of electronics plus study of logic and digital circuits. Several pieces of Army equipment are studied with an emphasis on troubleshooting. The equipment studied is very similar to a digital computer. *Version 2:* Lectures and laboratories in ADMS programming, processor groups, peripheral equipment control units, memory and memory control, memory assemblies, configuration control and consoles, and maintenance and operations. Instruction deals specifically with the automatic digital message switching equipment. *Version 3:* Lectures and laboratories in ADMS programming, processor groups, peripheral equipment control units, memory and memory control, memory assemblies, configuration control and consoles, and maintenance and operations. *Version 4:* Lectures and laboratories in ADMS programming, processor groups, peripheral equipment control units, memory and memory control, memory assemblies, configuration control and consoles, and maintenance and operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 10 semester hours in computer repair (8/79) in the lower-division baccalaureate/associate degree category, 4 semester hours in digital circuits, 6 in computer repair, and 3 in basic electronics (8/79). *Version 2:* In the vocational certificate category, 3 semester hours in digital circuitry (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital equipment laboratory and 3 in computer systems (4/77). *Version 3:* In the vocational certificate category, 6 semester hours in digital circuits and 2 in digital circuits laboratory (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in digital circuits laboratory (5/75). *Version 4:* In the vocational certificate category, 12 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (3/74). *Version 1:* 17

Related Occupation Codes: 34D; 09B; 34H.

AR-1715-0069

ADMSC Maintenance Supervisory

Course Number: 4C-F11; 4C-F11; 622-F7.

Location: Signal School, Ft. Monmouth, NJ.

Length: 11-15 weeks (389-564 hours).
Exhibit Dates: 4/68-Present.

Objectives: To train data processing equipment repair technicians to supervise the maintenance of overseas automatic digital message-switching centers.

Instruction: Lectures and practical exercises in digital computer principles, switching units, logic functions, magnetic tape and drum principles, peripheral equipment, and systems procedures.

Credit Recommendation: In the vocational certificate category, 8 semester hours in digital computers, 4 in computer laboratory (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in digital computers, 2 in computer laboratory (3/74); in the upper-division baccalaureate category, 2 semester hours in digital computers (3/74).

Related Occupation Codes: 301A; 521A.

AR-1715-0070

1. ADMS Peripheral Equipment Repair
2. Automatic Data Processing (ADP) Repair, Phase IV—ADMS Peripheral Equipment Repair
3. ADMS Peripheral Equipment Repair

Course Number: *Version 1:* 150-34L20. *Version 2:* 150-34D20 (Phase IV). *Version 3:* 622-F4.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ. *Version 3 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 15-23 weeks (603-902 hours). *Version 2:* 9 weeks (295-304 hours). *Version 3:* 9 weeks (312 hours).

Exhibit Dates: *Version 1:* 6/76-Present. *Version 2:* 8/69-5/76. *Version 3:* 4/68-7/69.

Objectives: To acquaint enlisted personnel with the techniques required to operate, inspect, test, and repair the specified switching system peripheral equipment.

Instruction: *Version 1:* Course is divided into two phases. Phase I (8 weeks) includes instruction in circuitry, for operation and repair, of solid state power supply, audio amplifier, audio oscillator, pulse generator, and logic trainer. Phase II (15 weeks) consists of lectures and practical exercises in switching system repair, including magnetic tape subsystem repair, digital circuit analysis, automatic digital switching system (ADMS) equipment maintenance and repair, and printer and memory operation and repair. Note: Students who have attended modules 201, 202, 203, 4, and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II of this course. *Version 2:* Lectures and practical exercises in switching system repair, including magnetic tape subsystem repair, digital circuit analysis, automatic digital switching system (ADMS) equipment maintenance and repair, and printer and memory operation and repair. *Version 3:* Instruction also includes ADMS peripheral equipment operation, maintenance, and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in electronic circuits and troubleshooting for students completing 23 weeks (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems laboratory for students completing either 15 or 23 weeks (see note above) (4/77). *Version 2:* In the vocational certificate category, 3 semester hours in digital computer systems (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in digital computer systems laboratory (5/75). *Version 3:* In the vocational certificate category, 12 semester hours in computer technology or electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in computer technology or electronics (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 34D; 09B; 34L.

AR-1715-0071

Radio Systems Officer

Course Number: *All Versions:* 4C-0505; 4C-0500. *Version 2:* 4C-0503.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 10 weeks (356 hours). *Version 2:* 12-16 weeks (420-562 hours).

Exhibit Dates: *Version 1:* 6/74-Present. *Version 2:* 1/68-5/74.

Objectives: To train commissioned officers to plan, direct, and supervise the installation, operation, and maintenance of tactical and fixed-station radio, microwave radio, and tropospheric scatter equipment and systems.

Instruction: *Version 1:* Lectures and practical exercises include cursory discussions of Ohm's Law, series and parallel circuits, AC circuits, amplifiers, receiver and transmitter fundamentals, and wave propagation. Specific topics include military pulse and FDM systems, field radio, satellite communications, and tropospheric scatter systems. *Version 2:* Lectures and laboratories in DC and AC fundamentals, tubes, transistors, amplifiers, oscillators, transmitters, radar fundamentals, TV, wave propagation and transmission lines, multiplexing, power generation, field radio, telephone equipment, satellite communications, electronic warfare, microwaves, and tropospheric scatter systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications and 1 in electronics laboratory (5/75); in the upper-division baccalaureate category, 3 semester hours as an elective in electronic communications (5/75). *Version 2:* In the vocational certificate category, 10 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in electronics (3/74); in the upper-division baccalaureate category, 6 semester hours in electronics (3/74).

AR-1715-0072

1. Radio Terminal Sets AN/TRC-90/129/132 Repair
2. Radio Terminal Set AN/TRC-90 (RF Portion)

Course Number: *Version 1:* 101-F6. *Version 2:* 11-R-F42.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 6 weeks (222 hours). *Version 2:* 5 weeks (190 hours).

Exhibit Dates: *Version 1:* 5/69-Present. *Version 2:* 10/64-4/69.

Objectives: To train microwave repairmen to operate and maintain AN/TRC-90/129/132 tropospheric scatter communications sets.

Instruction: *All Versions:* Lectures and laboratories in tropospheric transmitters and receivers, and operation and repair of tropospheric scatter communications systems. *Version 1:* Includes voice and teletype multiplexing equipment, transportable tropospheric scatter radio terminal sets, and transportable scatter system operations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (3/74). *Version 2:* In the vocational certificate category, 1 semester hour in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 26L.

AR-1715-0073

Strategic Microwave Systems Operation and Maintenance

Course Number: 101-26V10.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 11-17 weeks (394-617 hours). *Version 2:* 17 weeks (598-630 hours).

Exhibit Dates: *Version 1:* 5/76-9/78. *Version 2:* 8/68-4/76.

Objectives: To train enlisted personnel to install, operate, and maintain line-of-sight and tropospheric-scatter microwave radio equipment.

Instruction: *Version 1:* Course is divided into two phases. Phase I (6 weeks) includes lectures and practical experience in troubleshooting and repair of power supplies, audio amplifiers, audio oscillators, and pulse generators. Phase II (11 weeks) covers RF energy generation; solid state circuitry; wave shaping circuitry; frequency modulation; and frequency division multiplexing equipment, radio sets, multiplexer sets, and tropospheric scatter radio terminal equipment operation, installation, and maintenance. Note: Students who have attended modules 201, 202, 203, and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II of this course. *Version 2:* Lectures and practical exercises in electrical and electronic fundamentals; RF energy generation; solid-state circuitry; wave-shaping circuitry; frequency modulation; and frequency division multiplexing equipment, radio sets, multiplexer set, and tropospheric scatter radio terminal equipment operation, installation, and maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in basic electronics and troubleshooting for completion of 17 weeks (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in communication system troubleshooting for students completing either 11 or 17 weeks (see note above) (4/77). *Version 2:* In the vocational certificate category, 16 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in electronics (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics (3/74).

Related Occupation Codes: 09B; 26V.

AR-1715-0074

Satellite Communications Fundamentals
(Satellite Communications PRE NET Training)

Course Number: 11-R-F.

Location: Signal School, Ft. Monmouth, NJ.

Length: 8-10 weeks (304-380 hours).

Exhibit Dates: 9/64-12/68.

Objectives: To provide microwave equipment repairmen, radar repairmen, or fixed-plant carrier equipment repairmen with training in satellite communications.

Instruction: *All Versions:* Lectures and laboratories in history of communications, ground terminal configurations, and future of satellite communications; principles and applications of semiconductor devices, rectifiers, transistors, varactors, bias circuits, amplifier configurations, oscillators, power supplies, regulators, and multivibrators; digital data processing, binary notation, gating circuits, flip-flops, registers, counters, coders, and decoders; satellite communications devices and techniques, klystrons, antennas, FM receivers, modems, parametric amplifiers, synchro and servo circuits, and tracking systems. *Version 1:* Includes an introduction to spread spectrum and measurement interpretation.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0075

Ballistic Missile Propulsion and Structures Repair (Pershing)

Course Number: 631-376.1; 9-S-376.1; 9-S-F38.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 12-14 weeks (417-501 hours).

Exhibit Dates: 7/62-12/68.

Objectives: To train enlisted personnel to test and maintain Pershing missile electromechanical systems and associated equipment.

Instruction: Lectures and practical exercises in Pershing ballistic missile electromechanical systems and associated equipment testing and maintenance, including basic electricity, motors and generators, control devices, AC circuit analysis, transformers, and ground handling equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics, and 4 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 46M.

AR-1715-0076

Guided Missile Fire Control System Maintenance, SSM

Course Number: 44-OE-31.

Location: Artillery School, Ft. Bliss, TX.

Length: 32 weeks (1278 hours).

Exhibit Dates: 1/55-12/68.

Objectives: To train warrant officers and enlisted personnel to operate and maintain a surface-to-surface guided missile fire control system.

Instruction: Lectures and practical exercises in the operation and maintenance of a surface-to-surface guided missile fire control system, including basic mathematics, electricity, radio and radar electronics, analog computer and Dopler radio principles and operation, and employment of the Corporal fire control system.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity/electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity/electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity/electronics, and additional credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0077

1. Nike Launcher Control Repair
2. Nike Launcher Control Repair
3. Nike Launcher Control Systems Repair (Ajax/Hercules)

(SAM Launcher Control System Repair)

Course Number: *Version 1:* 121-22G20. *Version 2:* 9-S-251.1. *Version 3:* 9-R-251;1 9-E-62.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Ordnance Guided Missile School, Redstone Arsenal, AL. *Version 3:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 16-19 weeks (534-667 hours). *Version 2:* 10-14 weeks (360-502 hours). *Version 3:* 7-9 weeks (228-315 hours).

Exhibit Dates: *Version 1:* 10/66-5/74. *Version 2:* 8/59-9/66. *Version 3:* 7/55-7/59.

Objectives: To train enlisted and civilian personnel to inspect, test, and maintain Nike Hercules launcher control electrical, mechanical, and electronic components and associated test equipment.

Instruction: Lectures and practical exercises in Nike Hercules launcher control electrical, mechanical, and electronic components and associated test equipment inspection, testing, and maintenance, including electricity and electronics fundamentals; ordnance shop practices; launcher assembly and control area introduction; equipment operation; maintenance procedures; underground launchers; command test circuits; technical inspection; and system analysis.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity and electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* No credit because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 22G.

AR-1715-0078

1. Surface-to-Surface Missile System Maintenance (Pershing)
   Warrant Officer Intermediate
2. Ballistic Missile Maintenance Technician (Pershing)

Course Number: *Version 1:* 4-9-C30-I; 4F-241F-A. *Version 2:* 4F-241F; 122-F3; 9-N-F39; 9-N-241F.

Location: *All Versions:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 29 weeks (1038 hours). *Version 2:* 31-35 weeks (1111-1245 hours).

Exhibit Dates: *Version 1:* 10/70-Present. *Version 2:* 7/62-9/70.

Objectives: To provide field artillery missile system technicians, Pershing (214E), with development training in general military and missile-related subjects.

Instruction: Lectures and practical exercises in Army organization, military resource management, maintenance, and special operations; missile electronic and digital computer fundamentals; and Pershing digital equipment, guidance and control, and electrical mechanical systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electronic digital computers (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronic digital computers (3/74); in the upper-division baccalaureate category, 3 semester hours in electronic digital computers (3/74). *Version 2:* In the vocational certificate category, 8 semester hours in electronic digital computers (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronic digital computers (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 241F; 214E.

AR-1715-0079

1. Pershing Electronic Repair
2. Pershing Electronic Repair
3. Pershing Electronic Repair
4. Ballistic Missile Guidance and Control Repair (Pershing)
5. Ballistic Missile Guidance and Control Repair (Pershing)

Course Number: *Version 1:* 121-21L10. *Version 2:* 121-21L20. *Version 3:* 121-21L20. *Version 4:* 121-21L20. *Version 5:* 121-21L20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 35 weeks (1112 hours). *Version 2:* 32-36 weeks (1100-1271 hours). *Version 3:* 36 weeks (1255-1271 hours). *Version 4:* 31 weeks (1098 hours). *Version 5:* 31 weeks (1091 hours).

Exhibit Dates: *Version 1:* 9/78-Present. *Version 2:* 5/74-8/78. *Version 3:* 6/73-4/74. *Version 4:* 3/71-5/73. *Version 5:* 4/69-2/71.

Objectives: To train enlisted personnel to inspect, operate, test, and repair Pershing missile ground support equipment.

Instruction: *Version 1:* Lectures and practical exercises in Pershing missile electronic assemblies operation, maintenance, and repair, including electronic fundamentals;

missile electronics; and electronic equipment maintenance, safety, control, portable test equipment and hand tool distribution, systems analysis, and shop operations. Course includes AC,DC, resonance, transformers, power supplies, syncrodevices, soldering techniques, solid state devices and circuits, handtool use, and Pershing missile system test, evaluation, alignment, maintenance and repair. *Version 2:* Lectures and practical exercises in Pershing missile electronic assemblies operation, maintenance and repair, and electronic maintenance, safety, quality control, portable test equipment and hand tools usage, power distribution, systems analysis and shop operations. Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (31-32 weeks) in which is included amplifiers, oscillators, and introduction to logic circuits and digital computers. For COBET recommendation, see AR-1715-0389. Students who have not attended COBET will complete both Phases I (including AC and DC circuits, resonant circuits, and transistor fundamentals) and II for a total of 36 weeks. *Version 3:* Lectures and practical exercises in Pershing missile electronic assemblies operation, maintenance, and repair, including electronic fundamentals; missile electronics; digital computers introduction, computer arithmetic, and logic symbols and circuits; and electronic equipment maintenance, safety, quality control, portable test equipment and hand tools usage, power distribution, systems analysis, and shop operations. *Version 4:* Lectures and practical exercises in Pershing missile electronic assemblies operation, maintenance, and repair, including electronic fundamentals; missile electronics; digital computers introduction, computer arithmetic, and logic symbols and circuits; and electronic equipment maintenance, safety, quality control, portable test equipment and hand tools usage, power distribution, systems analysis, and shop operations. *Version 5:* Lectures and practical exercises in Pershing missile electronic assemblies operation, maintenance, and repair, including electronic fundamentals; missile electronics; digital computers introduction, computer arithmetic, and logic symbols and circuits; and electronic equipment maintenance, safety, quality control portable test equipment and hand tools usage, power distribution, systems analysis, and shop operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in transistor devices and circuits and 5 in electronics equipment repair techniques (8/79). *Version 2:* In the vocational certificate category, 9 semester hours in basic electronics, 9 in computer fundamentals for students who complete 31-32 weeks of the course or, 15 semester hours in basic electronics, 9 in computer fundamentals for students who complete 36 weeks of the course (see note above) (8/77). *Version 3:* In the vocational certificate category, 8 semester hours in electronics and digital computers (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics and digital computers (3/74). *Version 4:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 5:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 21L.

AR-1715-0080

REDSTONE ELECTRONIC MATERIEL MAINTENANCE

Course Number: 6-N-1192B; 6-N-218.1; 6-N-224.3B.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 20-22 weeks (556-931 hours).

Exhibit Dates: 5/57-12/68.

Objectives: To train enlisted personnel and warrant officers to assemble, install, calibrate, adjust, and maintain on-missile electronic guidance control components, systems, and associated electronic test equipment for Redstone missiles.

Instruction: Lectures and laboratories in basic electricity and electronics, radio electronics, radar electronics, magnetism, oscilloscopes, and R-L and C circuits.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics (3/74).

AR-1715-0081

SHORT RANGE AIR DEFENSE (SHORAD) SYSTEMS TECHNICIAN

(Chaparral/ Vulcan System Technician)

Course Number: *All Versions:* 4F-224B. *Version 2:* 121-F21.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 19 weeks (622-648 hours). *Version 2:* 15-16 weeks (551-582 hours).

Exhibit Dates: *Version 1:* 4/74-Present. *Version 2:* 11/69-3/74.

Objectives: To train warrant officers and enlisted personnel with fire control experience to operate and maintain the Chaparral/Vulcan air defense system and associated equipment.

Instruction: Lectures and practical exercises in maintenance of the Chaparral/Vulcan air defense system, including digital fundamentals, armament and turret electronics, performance tests, weapons equipment, antennas computer fundamentals, power supplies, and test equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in basic electronics, 2 in digital fundamentals (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 2 in digital fundamentals (2/75); in the upper-division baccalaureate category, 2 semester hours in digital systems, and additional credit on the basis of institutional evaluation (2/75). *Version 2:* In the vocational certificate category, 6 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

Related Occupation Codes: 24Q; 24B; 24D; 24F; 24M; 24N; 24U; 224B; 24C; 24E; 24G.

AR-1715-0082

1. BALLISTIC MISSILE HELPER
2. BALLISTIC MISSILE HELPER
   (Ballistic Missile Helper (Entry))

Course Number: *Version 1:* 121-21A10. *Version 2:* 9-R-370.0.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 9 weeks (317 hours). *Version 2:* 8-9 weeks (285-342 hours).

Exhibit Dates: *Version 1:* 5/68-Present. *Version 2:* 1/58-4/68.

Objectives: To provide enlisted personnel with knowledge of missile electronics and mechanics, and to train them to repair ballistic missile systems and associated ground handling and test equipment.

Instruction: Lectures and laboratories in missile electricity, including AC/DC circuit analysis, AC/DC motors, and amplifiers; missile electronics; missile electro-mechanics; and Army inertial ballistic missile maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 21A; 21H; 21J; 21K; 21L; 21M; 21R; 21T; 21S.

AR-1715-0083

1. CORPORAL MISSILE REPAIR
2. CORPORAL MISSILE REPAIR
3. CORPORAL INTERNAL GUIDANCE REPAIR
4. SSM INTERNAL GUIDANCE SYSTEM REPAIR

Course Number: *Version 1:* 9-S-249.1. *Version 2:* 9-R-F21. *Version 3:* 9-R-244.1. *Version 4:* 9-E-61.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 27 weeks (990 hours). *Version 2:* 17 weeks (621 hours). *Version 3:* 13 weeks (472 hours). *Version 4:* 11 weeks (484 hours).

Exhibit Dates: *Version 1:* 2/63-12/68. *Version 2:* 7/59-1/63. *Version 3:* 5/57-6/59. *Version 4:* 12/55-4/57.

Objectives: To train enlisted and civilian personnel to inspect, test, maintain, and repair internal electronic and mechanical components of Corporal missile systems and associated test equipment, including AN/MSM-12 van.

Instruction: Lectures and laboratories in electronic fundamentals, motors, generators, power supplies, semiconductor fundamentals, amplifiers, oscillators, digital logic, and missile shop practices.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (3/74). *Version 2:* In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74). *Version 3:* In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74). *Version 4:* In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74).

Related Occupation Codes: 24U.

AR-1715-0084

1. NIKE HERCULES ELECTRONIC MAINTENANCE
2. NIKE HERCULES ELECTRONIC MAINTENANCE
3. NIKE HERCULES ELECTRONIC MAINTENANCE
4. NIKE HERCULES ELECTRONIC MAINTENANCE
5. NIKE HERCULES ELECTRONIC MAINTENANCE
6. NIKE HERCULES ELECTRONIC MAINTENANCE
   (Nike-Universal Electronic Maintenance)
7. NIKE-UNIVERSAL ELECTRONIC MAINTENANCE
   (Nike-Universal Electronic Materiel Maintenance)

Course Number: *Version 1:* 121-24U10. *Version 2:* 4F-221B; 121-24U10; 121-24U20. *Version 3:* 4F-221B; 121-24U20. *Version 4:* 4F-221B; 121-24U20. *Version 5:* 4F-221B; 121-22F20. *Version 6:* 4F-221B; 121-22F20; 121-225;1 44-N-221B; 44-N-225.1. *Version 7:* 44-N-1182B; 44-N-225;1 44-N-1182; 44-N-F12.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 19 weeks (673 hours). *Version 2:* 22 weeks (783–794 hours). *Version 3:* 22 weeks (800 hours). *Version 4:* 22 weeks (804 hours). *Version 5:* 22 weeks (786–793 hours). *Version 6:* 25 weeks (870–914 hours). *Version 7:* 27 weeks (1008–1016 hours).

Exhibit Dates: *Version 1:* 1/80–Present. *Version 2:* 6/76–12/79. *Version 3:* 6/75–5/76. *Version 4:* 8/74–5/75. *Version 5:* 1/70–7/74. *Version 6:* 1/63–12/69. *Version 7:* 6/58–12/62.

Objectives: To train warrant officers and enlisted personnel to assemble, install, maintain, calibrate, and repair Nike Hercules guided missiles, associated testing and handling equipment, and launch equipment. Versions 2 and 3 will provide knowledge of warhead operations, assembly, service and maintenance of guided missiles.

Instruction: *All Versions:* Lectures and laboratories in basic electricity; basic electronics; radio circuits; warhead familiarization, assembly, and servicing; and system malfunction analysis. *Version 3:* Course does not include general information concerning basic electricity, electronics or radio circuits. *Version 4:* Topics include system AC and DC power distribution, simulation circuits, gyro system, system electrical circuit troubleshooting, and corrective maintenance procedures.

Credit Recommendation: *Version 1:* Pending evaluation *Version 2:* In the vocational certificate category, 3 semester hours in electrical circuits, 3 in electronics, 6 in electronics troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic laboratory (8/77). *Version 3:* In the vocational certificate category, 6 semester hours in electronics troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic laboratory (8/77). *Version 4:* In the vocational certificate category, 4 semester hours in electrical laboratory (3/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/75); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/75). *Version 5:* In the vocational certificate category, 2 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 6:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 7:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 221B; 221C; 24U; 22F.

AR-1715-0085

1. NIKE AJAX MISSILE ELECTRONIC MAINTENANCE
   (Nike Ajax Missile Electronic Materiel Maintenance)
2. SAM ELECTRONIC MATERIEL MAINTENANCE, NIKE
3. GUIDED MISSILE ELECTRONIC MATERIEL MAINTENANCE

Course Number: *Version 1:* 44-N-1182A; 44-N-223;1 44-N-223;2 44-N-1182. *Version 2:* 44-N-223;2 44-N-1182. *Version 3:* 44-OE-32.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Air Defense School, Ft. Bliss, TX. *Version 3:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 22 weeks (815–852 hours). *Version 2:* 28 weeks (1060 hours). *Version 3:* 27 weeks (1100 hours).

Exhibit Dates: *Version 1:* 6/58–12/68. *Version 2:* 3/57–5/58. *Version 3:* 6/55–2/57.

Objectives: To train warrant officer and enlisted personnel in Nike Ajax missile launching equipment.

Instruction: Lectures and practical exercises in basic electronics and communication, including AC and DC circuits, oscillators, and power supplies; Nike Ajax system equipment familiarization; launch area procedures; and testing procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 271A; 223B; 223D; 251D.

AR-1715-0086

LACROSSE ELECTROMECHANICAL SYSTEM MAINTENANCE

Course Number: 9-R-434.1.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 7 weeks (248–250 hours).

Exhibit Dates: 2/58–12/68.

Objectives: To train enlisted personnel to inspect, test, and maintain the Lacrosse electromechanical system.

Instruction: Lectures and practical exercises in maintenance of Lacrosse electromechanical system, including missile structures and repairs; fundamentals of electricity, motors, and generators; hydraulic systems; circuits; launcher and systems; system analysis; and atomic warfare instructions.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

AR-1715-0087

MISSILE MASTER FIRE UNIT INTEGRATION FACILITY MAINTENANCE
(Missile Master Battery Terminal Equipment Maintenance)

Course Number: 44-N-F14.

Location: Air Defense School, Ft. Bliss, TX.

Length: 9–10 weeks (318–336 hours).

Exhibit Dates: 4/58–12/68.

Objectives: To train warrant officers and enlisted personnel in fire unit integration facility equipment maintenance.

Instruction: Lectures and practical exercises in fire unit integration facility equipment maintenance, including binary arithmetic, transistors, encoder and decoder, transmitter data processing, power supply, receiver, modulator, receiver data processing, data converter, computers, digital techniques, and system analysis.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 214E; 214G; 222B; 223B; 224B; 241F; 251B; 223D; 251D.

AR-1715-0088

SERGEANT ELECTRICAL-MECHANICAL REPAIR

(Ballistic Missile Rocket Motor and Structures Repair (Sergeant))

Course Number: 631-46L20; 631-374.1; 9-S-F27.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 13 weeks (436-476 hours).

Exhibit Dates: 3/61-Present.

Objectives: To train enlisted personnel to inspect, test, and repair Sergeant missile electromechanical systems and associated equipment.

Instruction: Lectures and practical exercises in Sergeant missile electromechanical systems inspection, testing and repair, including electricity introduction, Ohm's law, series and parallel circuits, magnetism, AC and DC electricity; missile soldering procedures; transformers; impednace; hydraulic systems; schematic reading; and electromechanical repair procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

Related Occupation Codes: 46L.

AR-1715-0089

BALLISTIC MISSILE TEST STATION REPAIR (PERSHING)

Course Number: 122-21J20; 122-378.1; 9-S-378.1; 9-S-F36.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 29-34 weeks (1038-1228 hours).

Exhibit Dates: 7/62-12/68.

Objectives: To train enlisted personnel to inspect, test, and repair the Pershing ballistic missile test stations and associated equipment.

Instruction: Lectures and practical exercises in Pershing ballistic missile test stations and associated equipment inspection, testing, and repair, including AC and DC circuit fundamentals, motors, and generators; semiconductor fundamentals; power supplies; voltage regulators; solid-state circuit analysis; amplifiers, oscillators, and multivibrators; logic circuitry; and servomechanism fundamentals.

Credit Recommendation: In the vocational certificate category, 20 semester hours in electricity, electronics, and electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in electricity, electronics, and electrical laboratory (3/74); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 21J.

AR-1715-0090

GUIDED MISSILE ELECTRONIC MATERIEL MAINTENANCE, SSM

Course Number: 44-OE-33.

Location: Artillery School, Ft. Bliss, TX.

Length: 28 weeks (1140 hours).

Exhibit Dates: 4/55-12/68.

Objectives: To train warrant officers and enlisted personnel to assemble, install, test, and maintain missile electronic guidance control, systems, components, and associated test equipment.

Instruction: Lectures and practical exercises in the installation, operation, and maintenance of missile electronic guidance control components, systems, and associated test equipment, including basic electricity and electronics, mathematics, radar electronics, servomechanisms, and circuit analysis; and Corporal missile components, test equipment, check-out and firing.

Credit Recommendation: In the vocational certificate category, 16 semester hours in electricity or electronics, and 8 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 223B; 223D; 251D.

AR-1715-0091

TACTICAL COMMUNICATIONS SYSTEMS OPERATOR/MECHANIC

(Field Communications-Electronics Equipment Mechanic
(Field Communications-Electronics Equipment Repair)
(Field Radio Mechanic)

Course Number: *Version 1:* 101-31V10. *Version 2:* 101-31B20. *Version 3:* 101-31B20.

Location: *All Versions:* Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA; Armor School, Ft. Knox, KY; Field Artillery School, Ft. Sill, OK. *Version 1:* Infantry School, Ft. Benning, GA.

Length: *Version 1:* Self-paced 10 weeks (370-404 hours). *Version 2:* 9-10 weeks (329-400 hours). *Version 3:* 9 weeks (329-375 hours).

Exhibit Dates: *Version 1:* 8/78-Present. *Version 2:* 9/72-2/78. *Version 3:* 8/68-8/72.

Objectives: To train enlisted personnel to install, operate, and maintain radio transmitters and receivers.

Instruction: *All Versions:* Lectures and practical exercises in radio transmitter, receiver, and antenna fundamentals; operation and maintenance of AM, FM, and single-sideband radio sets; and radio equipment security procedures. *Version 1:* Instruction includes Ohms law, multimeters to check circuit components and continuity, soldering skills, and considerable emphasis on hands-on training in troubleshooting techniques and maintenance procedures. *Version 2:* Instruction includes DC circuits introduction, metric system, Ohm's law, multimeters, and vacuum tubes usage. *Version 3:* Instruction includes AC and DC circuits operation, tube amplifiers, and oscillators.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in radio repair (1/80); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory based on institutional evaluation (1/80). *Version 2:* In the vocational certificate category, 5 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity or electronics on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 5 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity (3/74).

Related Occupation Codes: 31B; 31E; 31G.

AR-1715-0092

COMMUNICATIONS CHIEF

Course Number: *All Versions:* 101-F4. *Version 2:* 6-R-F31.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 11 weeks (388 hours). *Version 2:* 12 weeks (435-456 hours).

Exhibit Dates: *Version 1:* 6/67-12/68. *Version 2:* 4/64-5/67.

Objectives: To train enlisted personnel to operate communications equipment and to supervise and coordinate a communications section.

Instruction: *All Versions:* Lectures and practical exercises in radiotelephone procedures and security, wire communications, FM fundamentals, AM equipment, supply procedures, radio teletypewriter procedures, message center procedures and cryptography, tactical communication centers, and automatic data processing equipment for weapons. *Version 1:* Instruction includes AC and DC fundamentals and radio fundamentals.

Credit Recommendation: *Version 1:* In the vocational certificate category, 7 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 5 semester hours in electricity or electronics (3/74).

AR-1715-0093

BASIC FIELD RADIO REPAIR

Course Number: 11-R-296.0.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 17 weeks (627 hours). *Version 2:* 18 weeks (673 hours).

Exhibit Dates: *Version 1:* 2/65-12/68. *Version 2:* 5/63-1/65.

Objectives: To train enlisted personnel to maintain field radio equipment.

Instruction: *All Versions:* Lectures and practical exercises in transmitter and receiver fundamentals, transmitter and receiver maintenance and repair, field radio teletypewriter equipment operation and maintenance, and support maintenance procedures. *Version 1:* Instruction includes installation, operation, adjustment, and repair of transistorized FM radio sets.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in electronics or radio repair (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electronics or radio repair (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

AR-1715-0094

1. SENIOR FIELD GENERAL COMSEC REPAIR
   (Field General COMSEC Repair)
2. FIELD GENERAL COMSEC REPAIR

Course Number: 160-31S30.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 28-38 weeks (1039-1354 hours). *Version 2:* 38 weeks (1428 hours).

Exhibit Dates: *Version 1:* 1/74-Present. *Version 2:* 1/67-12/73.

Objectives: To train enlisted personnel to install, inspect, test, and maintain tactical communications security and crypto ancillary equipment.

Instruction: *All Versions:* Lectures and practical exercises in maintenance of communications security and ancillary equipment, including electrical fundamentals, circuitry, solid state circuitry and logic, wave shaping, multivibrators, time constants, regulators, principles of teletypewriter equipment, voice and electromechanical security equipment, and systems installation. *Version 1:* Note: Students who have attended 6 weeks of Common Basic Electronics Training (COBET) will complete only Phase II-VII (or only Phase II after 1/77) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete all phases of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in precision soldering for students who complete only Phases II-VII (28 weeks) or Phase II (32 weeks after 1/77) or 4 semester hours in basic electronics and troubleshooting and 2 semester hours in precision soldering for students who complete the entire course (34 or 38 weeks) (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronic circuit analysis and troubleshooting for students completing 28, 32, 34 or 38 weeks of the course (4/77). *Version 2:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics for non-electronics majors, and credit in electricity or electronics on the basis of institutional evaluation for electronics majors (3/74); in the upper-division baccalaureate category, 6 semester hours in electricity or electronics for non-electronics majors (3/74).

Related Occupation Codes: 31S; 31U; 09B.

AR-1715-0095

RADIO OPERATOR

Course Number: *Version 1:* 201-05B10; 05B10-CELT. *Version 2:* 201-05B20.

Location: Signal School, Ft. Gordon, GA; Army Training Centers, Continental U.S..

Length: *Version 1:* 7-12 weeks (237-496 hours). *Version 2:* 9 weeks (315-319 hours).

Exhibit Dates: *Version 1:* 3/79-Present. *Version 2:* 6/72-2/79.

Objectives: To train enlisted personnel to install, operate, and maintain field tactical radio sets and associated equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of tactical radio sets, including communications exercises, driver training, international Morse code, communications procedure and operation of field radio equipment, and ancillary communications equipment operation.

Credit Recommendation: *Version 1:* Credit is not recommended due to the military-specific nature of the course (8/79). *Version 2:* In the vocational certificate category, 2 semester hours in electronics (3/74).

Related Occupation Codes: 05B.

AR-1715-0096

FIXED CIPHONY REPAIR

Course Number: *Version 1:* 160-32F10. *Version 2:* 160-32F20. *Version 3:* 160-32F20.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 35-36 weeks (1312-1346 hours). *Version 2:* 40 weeks (1426 hours). *Version 3:* 40 weeks (1504 hours).

Exhibit Dates: *Version 1:* 2/77-Present. *Version 2:* 4/73-1/77; 4/73-3/73.

Objectives: To train enlisted personnel to install, operate, and repair strategic microwave radio systems.

Instruction: *All Versions:* Lectures and practical experience in scope and VTVM basic testing techniques; duplex key generator operation; speech compression and digitalization equipment operation; wideband, full-duplex speech security equipment operation; narrow-band subscriber terminal operation; and depot repair techniques. *Version 1:* Instruction includes lecture and laboratory experience in solid state power supply, audio amplifier, audio oscillator and logic trainer circuitry. Emphasis on testing and troubleshooting. Basic 'hands on' trouble shooting and testing of equipment also takes place. *Version 2:* Instruction includes electronic communications equipment troubleshooting, binary number system introduction, and basic logic circuits. *Version 3:* Instruction includes electrical fundamentals.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in digital circuitry, 2 semester hours in soldering and printed circuit board repair and 12 in electronics laboratory/troubleshooting (8/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics (8/79). *Version 2:* In the vocational certificate category, 15 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74). *Version 3:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 32F.

AR-1715-0097

FIELD SYSTEMS COMSEC MAINTENANCE

Course Number: 160-31T20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 8-10 weeks (281-351 hours). *Version 2:* 10 weeks (346-516 hours).

Exhibit Dates: *Version 1:* 8/74-Present. *Version 2:* 1/72-7/74.

Objectives: To train enlisted personnel to maintain communications equipment.

Instruction: *All Versions:* Lectures and laboratories in communications equipment maintenance, including electricity introduction (battery characteristics, Ohm's law, basic electrical circuits, tube theory, relays, transformers, solid-state diodes, transistors, oscilloscope use, and binary number system); laboratory work, including meter reading, continuity testing, soldering, reading schematics, VTVM use, and simple equipment use; and installing, troubleshooting, identifying, inspecting, testing, and replacing defective electrical parts. *Version 1:* Note: Students who have completed Module 1 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (8 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (10 weeks) of this course.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electrical laboratory for those students completing 10 weeks; or 1 semester hour in basic electrical laboratory for those students completing 8 weeks (see note above) (5/75). *Version 2:* In the vocational certificate category, 2 semester hours in electrical test laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical test laboratory, and additional credit in electrical test laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31T.

AR-1715-0098

STRATEGIC MICROWAVE SYSTEMS REPAIR

Course Number: 101-26V20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Gordon, GA. *Version 3 :* Signal School, Ft. Monmouth, NJ. *Version 4 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 22-32 weeks (812-1187 hours). *Version 2:* 26-32 weeks (928-1139 hours). *Version 3:* 32 weeks (1200 hours). *Version 4:* 23 weeks (858 hours).

Exhibit Dates: *Version 1:* 7/76-9/78. *Version 2:* 5/74-6/76. *Version 3:* 8/70-4/74. *Version 4:* 10/68-7/70.

Objectives: To train enlisted personnel to install, operate, and repair strategic microwave radio systems.

Instruction: *Version 1:* Lectures and practical experience in troubleshooting and repair of power supplies, audio amplifiers, audio oscillators, pulse generators, transceivers and logic circuits; operation and troubleshooting of microwave communication equipment and principles of microwave techniques. Note (1): Students who have completed Modules 201, 202, 203, 4 5/6, and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (22 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (32 weeks) of this course. *Version 2:* Lectures and practical exercises in operation and troubleshooting microwave communication equipment, electrical fundamentals, pulse generator circuitry, electronics applied to basic receivers and logic circuits, and principles of microwave techniques. Note (2): Students who have completed Modules 1, 2, 3 and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (26 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete Phases I and II (32 weeks) of this course. *Version 3:* Lectures and laboratories in AC and DC circuits and networks fundamentals; electronic amplifier fundamentals, including vacuum tubes; receiver fundamentals, including heterodyning, AGC, coupling, oscillators and mixers; semiconductor theory; basic emitter-collector configurations; wave-shaping circuits on DC and differential amplifiers; FM and microwave techniques; voice and teletype multiplexing equipment; and radio system installation, operation, and repair techniques. *Version 4:* Instruction is same as Version 2 and also includes generation of RF energy and time constants.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in basic electronics and troubleshooting for those students completing 32 weeks of the course (see note (1) above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in communication system troubleshooting for students completing either 22 or 32 weeks of the course (see note (1) above) (4/77). *Version 2:* In the vocational certificate category, 6 semester hours in communications electronics for those students completing 26 weeks or 10 semester hours in communications electronics for students attending 32 weeks of the course (see note (2) above) (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics for students completing 26 weeks or 3 semester hours as an elective in electronics and 2 in electronics laboratory for students attending 32 weeks of the course (see note (2) above) (6/75). *Version 3:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 4:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 09B; 26V.

AR-1715-0099

1. Surface-to-Air Missile System Maintenance (Hawk) Warrant Officer Intermediate
2. Air Defense Missile Maintenance Technician (Hawk)
3. Air Defense Missile Maintenance Technician (Hawk)

(Hawk Maintenance Supervision)

Course Number: *Version 1:* 4-9-C30-F; 4F-251C-A. *Version 2:* 4F-251C; 122-F5. *Version 3:* 9-N-251C.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL. *Version 3:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 17 weeks (612 hours). *Version 2:* 41 weeks (1466 hours). *Version 3:* 40-46 weeks (1458-1661 hours).

Exhibit Dates: *Version 1:* 10/71-Present. *Version 2:* 9/69-9/71. *Version 3:* 5/59-8/69.

Objectives: To train warrant officers who have a background in missile technology to repair Hawk air defense missiles.

Instruction: *All Versions:* Lectures and practical exercises in Hawk missile system support maintenance. *Version 2:* Includes test equipment, radars, power supplies, launcher, fire command console, engagement simulator, AC and DC circuits, and system analysis and troubleshooting procedures. *Version 3:* Includes test equipment, radars, power supplies, servomechanisms, fire command console, launcher, engagement simulator, logisitcal support, and system analysis.

Credit Recommendation: *Version 1:* Credit is not recommended because of the limited technical nature of the course (3/74). *Version 2:* In the vocational certificate category, 8 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (3/74). *Version 3:* In the vocational certificate category, 8 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (12/68); in the upper-division baccalaureate category, 2 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 223B; 223D; 251D; 251D.

AR-1715-0100

Ballistic Missile Test Station Repair (Sergeant)

Course Number: 9-S-375.1; 9-S-F28.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 23-27 weeks (828-966 hours).

Exhibit Dates: 3/61-12/68.

Objectives: To train enlisted and civilian personnel to inspect, test, and repair Sergeant missile electronic systems and associated equipment.

Instruction: Lectures and laboratories in basic electricity, power supplies, transistor circuits, linear wave shaping, servomechanisms, and Sergeant test equipment.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0101

Hawk Missile and Launcher Maintenance

Course Number: *Version 1:* 121-24D20. *Version 2:* 121-24D20. *Version 3:* 121-24D20. *Version 4:* 121-22J20; 44-R-227.1.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 14 weeks (514 hours). *Version 2:* 14 weeks (519-525 hours). *Version 3:* 14 weeks (507 hours). *Version 4:* 20-26 weeks (770-919 hours).

Exhibit Dates: *Version 1:* 3/75-Present. *Version 2:* 5/73-2/75. *Version 3:* 9/70-4/73. *Version 4:* 5/59-8/70.

Objectives: To train enlisted personnel in Hawk system loaders, launchers, missiles, and associated test equipment operation, adjustment, maintenance, and troubleshooting.

Instruction: Lectures and practical exercises in the maintenance of the Hawk missile and launcher, including AC and DC circuits, linear circuit elements, transistors and vacuum tubes, oscilloscopes, multimeters, and oscillators.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in basic electronics laboratory (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics laboratory (6/75). *Version 2:* In the vocational certificate category, 3 semester hours in basic electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics laboratory (6/74). *Version 3:* Credit is not recommended because of the limited technical specialized nature of the course (3/74). *Version 4:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 24D.

AR-1715-0102

Sergeant Missile Battery Officer
(Sergeant Missile Battery)

Course Number: 4F-214F; 043-15B30; 121-15B30; 4F-F4; 121-161.2.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: 5-6 weeks (161-241 hours).

Exhibit Dates: 5/62-6/75.

Objectives: To train warrant officers and enlisted personnel to assemble, check out, maintain, and operate Sergeant missile and associated ground handling equipment.

Instruction: Lectures and laboratories in basic electronics and Sergeant guided missile system familiarization, operation, and maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

Related Occupation Codes: 15B; 214E; 241F.

AR-1715-0103

Ballistic Missile Inertial Guidance and Control Repair (Pershing)

Course Number: 122-377.1; 9-S-377.1; 9-S-F35.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 28 weeks (957-1020 hours).

Exhibit Dates: 7/62-12/68.

Objectives: To train enlisted and civilian personnel to inspect, test, and maintain electronic guidance and control assemblies of Pershing missile and related ground support equipment.

Instruction: Lectures and laboratories in missile electronics, including basic electricity, power supplies, transistors, amplifiers, digital computer fundamentals, linear wave shaping, and servomechanisms, and maintenance procedures for Pershing missiles and ground support equipment.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 21H.

AR-1715-0104

Ballistic Missile Guidance and Control Repair

Course Number: *Version 1:* 9-S-373.3. *Version 2:* 9-R-371.1.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 20 weeks (754 hours). *Version 2:* 13 weeks (456 hours).

Exhibit Dates: *Version 1:* 1/61–12/68. *Version 2:* 5/58–12/60.

Objectives: To train enlisted and civilian personnel to operate, inspect, test, and maintain ballistic missile guidance and control systems and components.

Instruction: Lectures and laboratories in basic ordnance shop practices; electrical fundamentals, electronic fundamentals, including power supplies, oscilloscopes, and analog computers; common guidance and control of ballistic missiles; and Redstone ballistic missile guidance and control systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0105

Surface-to-Air Missile Systems Maintenance Warrant Officer Advanced

(Surface-to-Air Missile Systems Maintenance Warrant Officer Intermediate (221B, 222B, 223C))

Course Number: 2-44-C32; 2-44-C30.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 21 weeks (747–759 hours). *Version 2:* 23 weeks (763–920 hours). *Version 3:* 24 weeks (658–882 hours).

Exhibit Dates: *Version 1:* 2/79–Present. *Version 2:* 8/76–1/79. *Version 3:* 1/73–7/76.

Objectives: To train warrant officers to perform as technical advisors or instructors on surface-to-air missile systems.

Instruction: Lectures and practical exercises in surface-to-air missile systems, including high- and low-altitude air defense, missile electronics and control systems, digital computer fundamentals, data storage, semiconductor theory, automatic data processing, amplifiers, oscillators, multivibrators, RF transmitters and receivers, and logic circuits. Version 2 includes probability and statistics.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in semiconductor electronics, 3 in electrical laboratory, 1 in computer programming (8/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory, 2 in statistics and operational analysis (8/77). *Version 3:* In the vocational certificate category, 12 semester hours in electronics or digital computers (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics or digital computers (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics or digital computers (3/74).

Related Occupation Codes: 221B; 221C; 222B; 251B.

AR-1715-0106

Nike-Hercules Missile Electronic Maintenance

(Nike Hercules Missile Electronic Materiel Maintenance Transition)

Course Number: 44-N-225.1T; 44-N-F6.

Location: Air Defense School, Ft. Bliss, TX.

Length: 9–11 weeks (303–402 hours).

Exhibit Dates: 10/57–12/68.

Objectives: To train warrant officers and enlisted personnel to perform and supervise the maintenance of Nike Hercules missiles and associated equipment.

Instruction: Lectures and practical exercises in components, operation, and circuitry of missile and assembly area equipment; operation and maintenance of Nike Hercules high-explosive warheads; rocket motors, and equipment in the servicing and launching area; assembly and testing of Nike Hercules nuclear warheads; and safety procedures in handling nuclear material and equipment.

Credit Recommendation: In the upper-division baccalaureate category, credit in radio or electronics on the basis of institutional evaluation (3/74).

Related Occupation Codes: 221B; 221C.

AR-1715-0107

Artillery Communications Supervisors

(Artillery Communications Supervisors)
(Artillery Communication Supervision)
(Artillery Communication Enlisted)

Course Number: 6-R-313.6; 6-R-313.7; 6-E-1.

Location: Artillery and Missile School, Ft. Sill, OK; Artillery and Guided Missile School, Ft. Sill, OK.

Length: 13–16 weeks (495–679 hours).

Exhibit Dates: 10/55–12/68.

Objectives: To train enlisted personnel experienced in field wire, radio operation, or radio maintenance to supervise the operation of artillery communications units.

Instruction: Lectures and practical exercises in map reading, fundamentals of electricity, wire communication equipment, radio communication equipment, maintenance of communication equipment and signal supply procedures, message center procedures and cryptography, radioteletype procedures, and communication systems for artillery units.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0108

Infantry Radio Maintenance

Course Number: 101-311.1; 7-R-311.1; 7-E-3.

Location: Infantry School, Ft. Benning, GA.

Length: 12–15 weeks (476–615 hours).

Exhibit Dates: 1/55–12/68.

Objectives: To train enlisted personnel to perform organizational maintenance on field radios and associated electronic equipment.

Instruction: Lectures and laboratories in fundamentals of electricity, including AC and DC circuits, power supplies, vacuum tubes, transformers, amplifiers, oscillators, modulation, and receiving and transmitting circuits; and maintenance and repair of radio sets.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electricity or electronics laboratory (3/74).

Related Occupation Codes: 31B.

AR-1715-0109

Armor Radio Maintenance

Course Number: *Version 1:* 17-R-312.1. *All Versions:* 17-E-2.

Location: Armor School, Ft. Knox, KY.

Length: *Version 1:* 12–13 weeks (451–505 hours). *Version 2:* 17 weeks (705 hours).

Exhibit Dates: *Version 1:* 7/55–12/68. *Version 2:* 7/54–6/55.

Objectives: To train enlisted personnel to operate and maintain communication equipment used in armor communication systems.

Instruction: *All Versions:* Lectures and laboratories in fundamentals of electricity, repair of AM and FM radio sets, and field maintenance. *Version 1:* Emphasizes AM and FM radio repair techniques. *Version 2:* Emphasizes fundamentals of electricity and radio repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 15 semester hours in basic shop practice (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic shop practice, and additional credit in basic shop practice on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 10 semester hours in basic shop practice (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68).

AR-1715-0110

Fixed Station Radio Equipment Operation and Maintenance

Course Number: 101-32A10; 11-R-270.0; 11-E-45.

Location: Signal School, Ft. Monmouth, NJ.

Length: 14–15 weeks (508–600 hours).

Exhibit Dates: 9/54–Present.

Objectives: To train enlisted personnel to operate and maintain ground radio equipment.

Instruction: Lectures and laboratories in electrical fundamentals, basic radio fundamentals, fixed-station layout, telegraph fundamentals, terminal equipment, transmitters, radio receivers, and fixed-station integrated communications systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical or electronics laboratory (3/74).

Related Occupation Codes: 32A; 32B; 32C; 32D; 32E.

AR-1715-0111

1. Multichannel Communications Equipment Repair
2. Radio Relay and Carrier Repair
3. Radio Relay and Carrier Repair
4. Field Carrier Equipment Repair
   (Carrier Equipment Repair)
   (Repeater and Carrier Equipment Installation and Maintenance)

Course Number: *Version 1:* 101-31L20. *Version 2:* 101-31L20; 101-294.1. *Version 3:* 101-294.1. *Version 4:* 11-R-294;1 11-E-9.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Southeastern Signal School, Ft. Gordon, GA. *Version 3:* Southeastern Signal School, Ft. Gordon, GA. *Version 4:* Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 17-23 weeks (639-855 hours). *Version 2:* 14-23 weeks (523-864 hours). *Version 3:* 28 weeks (1045 hours). *Version 4:* 20-25 weeks (800-931 hours).

Exhibit Dates: *Version 1:* 10/74-12/78. *Version 2:* 1/66-9/74. *Version 3:* 8/64-12/65. *Version 4:* 3/53-7/64.

Objectives: To train enlisted personnel to install and maintain radio relay, repeater, and carrier equipment.

Instruction: *Version 1:* Lectures and practical troubleshooting exercises in military communications systems, carrier equipment circuits and systems repair, telephone terminal testing, repair, and system analysis; and general shop practices and troubleshooting procedures. *Version 2:* Lectures and practical exercises in AC and DC circuit theory; electronics fundamentals; communications introduction; carrier equipment circuits and systems repair; telephone terminal testing, repair, and system analysis; and shop practices and troubleshooting procedures. *Version 3:* Instruction is same as Version 2 and also is more detailed and at a higher level. *Version 4:* Instruction is same as Version 2 and also is more detailed and at a higher level.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in communications electronics, 1 in communications electronics laboratory for those students completing the 17-week course or 3 semester hours in communications electronics, 2 in communications electronics laboratory for those students completing the 23-week course (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in communication electronics for those students who complete either the 17-week or 23-week course (5/75). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 9 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electronics or electricity, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 4:* In the vocational certificate category, 9 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electronics laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31L; 31M.

AR-1715-0112

Artillery Radio Maintenance

Course Number: 6-R-313.1; 6-E-3.

Location: Artillery and Missile School, Ft. Sill, OK; Artillery and Guided Missile School, Ft. Sill, OK.

Length: 12-14 weeks (519-597 hours).

Exhibit Dates: 7/56-12/68.

Objectives: To train enlisted personnel to install, operate, maintain, and repair artillery communications systems equipment.

Instruction: Lectures and practical exercises in electrical fundamentals, including AC and DC circuits and theory; electronics fundamentals, including vacuum tubes, diodes, triodes, pentodes, amplifiers, and oscillators; circuit analysis for specific receivers and transmitters; and radio systems installation, operation, maintenance, and repair procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 22A; 22G; 22K; 22L; 22M; 23N; 23Q; 23S; 23T; 23U.

AR-1715-0113

Guided Missile Repair Helper
(Ordnance Electronics (Entry))

Course Number: 121-22A10; 9-R-250.0; 9-E-51.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL. *Version 2:* Signal School, Ft. Monmouth, NJ.

Length: 10-11 weeks (351-402 hours).

Exhibit Dates: 9/56-Present.

Objectives: To train enlisted personnel to repair guided missile electronic equipment.

Instruction: Lectures and practical exercises in electrical and electronics fundamentals; communications electronics; pulse techniques; video systems; special-purpose circuits timing and soldering techniques; equipment record system familiarization; basic mathematics for AC and DC circuits; and operation and repair procedures for various missile transmitters, receivers, amplifiers, oscillators, voltage regulators, and servomechanisms.

Credit Recommendation: In the vocational certificate category, 8 semester hours in radio and electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in radio and electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0114

1. Nike Missile Repair
2. Nike Missile Repair
   (Nike Missile Repairman)
   (Nike Internal Guidance Repair)
3. Nike Internal Guidance Repair
   (Nike Internal Guidance System Repair)
4. SAM Internal Guidance System Repair

Course Number: *Version 1:* 121-22M20. *Version 2:* 121-22M20; 121-254;1 9-S-254.1. *Version 3:* 9-S-254;1 9-R-254.1. *Version 4:* 9-E-65.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL. *Version 3:* Ordnance Guided Missile School, Redstone Arsenal, AL. *Version 4:* Ordnance Guided Missile school, Redstone Arsenal, AL.

Length: *Version 1:* 22 weeks (744 hours). *Version 2:* 23-28 weeks (879-1039 hours). *Version 3:* 12-13 weeks (420-483 hours). *Version 4:* 7 weeks (245 hours).

Exhibit Dates: *Version 1:* 10/72-5/74. *Version 2:* 2/63-9/72. *Version 3:* 5/57-1/63. *Version 4:* 12/55-4/57.

Objectives: To train SAM electronic repair helpers to inspect, test, and repair the Nike Hercules missile and associated test equipment.

Instruction: Lectures and practical exercises in basic electricity; AC and DC circuits; linear wave shaping; communication systems; vacuum tubes, amplifiers, and video systems; and missile system operation, maintenance, and test procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (3/74). *Version 2:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 4:* In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 22M.

AR-1715-0115

Combat Missile System Repair
(Combat Missile System Repair (Redeye-Shillelagh-Tow))

Course Number: 121-27C20; 121-F15.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 15-24 weeks (525-844 hours).

Exhibit Dates: 5/66-Present.

Objectives: To train enlisted and civilian personnel to inspect, test, and maintain combat missile systems and associated test equipment.

Instruction: Lectures and practical exercises in combat missile systems and associated test equipment inspection, testing, and maintenance, including electricity and electronics fundamentals, transistors and transistor principles, logic circuits and digital computer operation, system components repair procedures, and safety and security procedures.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 22C.

AR-1715-0116

Ballistic Missile General Support
Shop Set Repair (Sergeant)

Course Number: 122-21F30; 122-375.2; 9-S-F44.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 18 weeks (648-681 hours).

Exhibit Dates: 1/64-12/68.

Objectives: To train enlisted and civilian personnel to inspect, test, and repair the general support shop set and Sergeant missile electronic systems and associated equipment through field maintenance level.

Instruction: Lectures and practical exercises in missile electronics subjects, including heterodyne receivers, AM and FM transmitters, radio waves, amplifiers, basic communications circuits, missile digital controller, testing and repair of general electronics equipment, and linear wave-shaping techniques.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

AR-1715-0117

1. Pershing System Maintenance
2. Pershing System Maintenance
3. Pershing System Maintenance
4. Pershing System Maintenance (Pershing Specialist)

Course Number: *All Versions:* 4F-214E; 121-21G20. *Version 4:* 6-N-214E; 6-N-163.2.

Location: *Version 1:* Field Artillery School, Ft. Sill, OK. *Version 2:* Field Artillery School, Ft. Sill, OK. *Version 3:* Artillery and Missile School, Ft. Sill, OK. *Version 4:* Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 13-14 weeks (477-525 hours). *Version 2:* 12 weeks (462 hours). *Version 3:* 14 weeks (480 hours). *Version 4:* 17-20 weeks (634-757 hours).

Exhibit Dates: *Version 1:* 5/72-7/77. *Version 2:* 10/70-4/72. *Version 3:* 12/68-9/70. *Version 4:* 8/63-11/68.

Objectives: To train warrant officers and enlisted personnel in the assembly, operation, and maintenance of Pershing missile and associated support equipment.

Instruction: Lectures and practical exercises in basic electricity, test equipment usage, AC circuit fundamentals, AC and DC motors, switches, synchro mechanisms, mathematics review, digital computer fundamentals, solid-state fundamentals, Pershing missile theory and functioning, and missile equipment operation and maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electricity or electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics laboratory (3/74). *Version 2:* In the vocational certificate category, 2 semester hours in electricity or electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electronics on the basis of institutional evaluation (3/74). *Version 3:* In the upper-division baccalaureate category, credit in electricity or electronics laboratory on the basis of institutional evaluation (3/74). *Version 4:* In the vocational certificate category, 4 semester hours in electricity or electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electronics laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 21G; 214E; 241F.

AR-1715-0118

Ballistic Missile Digital Equipment
Repair (Pershing)

Course Number: 150-21M20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 25-26 weeks (874-911 hours).

Exhibit Dates: 2/69-Present.

Objectives: To train enlisted and civilian personnel to inspect, test, and repair the Pershing digital and associated equipment through general support maintenance level.

Instruction: Lectures and practical exercises in operation of the Pershing digital equipment, including missile electronic subjects, basic electrical principles, and computer operation, testing, and components.

Credit Recommendation: In the vocational certificate category, 16 semester hours in electronics and digital equipment (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in electronics and digital equipment (3/74).

Related Occupation Codes: 21M.

AR-1715-0119

Pershing System Maintenance
(Transition)

Course Number: 4F-F7; 121-F18.

Location: Field Artillery School, Ft. Sill, OK.

Length: 9 weeks (305 hours).

Exhibit Dates: 1/69-10/71.

Objectives: To train warrant officers who qualify as Pershing missile systems technicians and enlisted fire control specialists to operate new Pershing equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of new Pershing equipment, including guided missile instruction, operation of the programmer test station, the Pershing erector-launcher, firing position procedures, digital computer hardware and logic, and basic solid-state electronics related to the new equipment.

Credit Recommendation: In the vocational certificate category, 4 semester hours in digital computers (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in digital computers (3/74).

Related Occupation Codes: 21G; 214E; 241F.

AR-1715-0120

Chaparral System Mechanic

Course Number: 121-24N10; 121-24N20.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 10-12 weeks (404-411 hours). *Version 2:* 11-12 weeks (377-413 hours). *Version 3:* 19 weeks (688 hours). *Version 4:* 10 weeks (352 hours).

Exhibit Dates: *Version 1:* 8/76-Present. *Version 2:* 9/70-7/76. *Version 3:* 6/69-8/70. *Version 4:* 11/68-5/69.

Objectives: To train enlisted personnel to maintain Chaparral weapon systems and associated equipment.

Instruction: Lectures and laboratories in vaccum tube and transistor electronics, synchro/servo relay systems, and familiarization with low-altitude Chaparral air defense systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electronic troubleshooting (8/77). *Version 2:* Credit is not recommended because of the limited specialized nature of the course (3/74). *Version 3:* In the vocational certificate category, 8 semester hours in basic electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electronics (3/74). *Version 4:* Credit is not recommended because the limited specialized nature of the course (3/74).

Related Occupation Codes: 24N; 09B.

AR-1715-0121

Ballistic Meteorology Crewman,
Specialist Candidate
(Ballistic Meteorology Crewman, Skill Development Base)

Course Number: 420-93F20-I.

Location: Field Artillery School, Ft. Sill, OK.

Length: 11-12 weeks (394-455 hours).

Exhibit Dates: 2/69-Present.

Objectives: To train ballistic meteorology crewmen as supervisors or technicians on ballistic meteorology crews.

Instruction: Lectures and practical exercises in meteorology, meteorological equipment, maintenance procedures and tactical employment of meteorology sections, and leadership subjects.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 93F.

AR-1715-0122

Pershing Electrical-Mechanical
Repair
(Ballistic Missile Electrical Mechanical Repair (Pershing))

Course Number: *Version 1:* 631-46N10. *Version 2:* 631-46N20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 14-18 weeks (493-639 hours).

Exhibit Dates: *Version 1:* 9/78-Present. *Version 2:* 3/69-8/78.

Objectives: To train enlisted personnel to inspect, test, and repair Pershing missile electrical, mechanical, and hydraulic systems and associated test and ground support equipment.

Instruction: Lectures and laboratory exercises including basic electricity concepts of work, energy, and power; DC and AC circuit theory-series, parallel, series-parallel, inductive, capacitive, and LCR circuits; soldering techniques and practices; basic manual skills and missile hydraulic systems and associated test and ground support equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in electronics repair techniques (8/79); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity/electronic fundamentals (8/79). *Version 2:* In the vocational certificate category, 5 semester hours in basic electronics and troubleshooting (3/75).

Related Occupation Codes: 46N.

AR-1715-0123

1. Lacrosse External Guidance Repair
2. Lacrosse External Guidance Repair
   (Lacrosse External Guidance System Repair)

Course Number: *Version 1:* 9-S-248.1. *Version 2:* 9-R-248.1.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 29 weeks (1077 hours). *Version 2:* 17–19 weeks (608–704 hours).

Exhibit Dates: *Version 1:* 2/63–12/68. *Version 2:* 6/58–1/63.

Objectives: To train electronic repair helpers to inspect, test, and maintain Lacrosse external guidance systems and associated test equipment.

Instruction: Lectures and laboratories in ordnance shop practices; missile radar and missile radar circuits, including basic electricity, basic electronics, transistors, amplifiers, and communication circuit linear wave shaping; and field maintenance of Lacrosse missile guidance central.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0124

1. Lacrosse Internal Guidance Repair
2. Lacrosse Internal Guidance Repair
3. Lacrosse Internal Guidance System Repair

Course Number: *Version 1:* 9-S-247.1. *Version 2:* 9-R-247.1. *Version 3:* 9-R-247.1.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 25 weeks (902 hours). *Version 2:* 14–15 weeks (504–554 hours). *Version 3:* 11 weeks (391 hours).

Exhibit Dates: *Version 1:* 2/63–12/68. *Version 2:* 8/59–1/63. *Version 3:* 6/58–7/59.

Objectives: To train enlisted and civilian personnel to inspect, test, and maintain Lacrosse internal guidance systems and associated equipment.

Instruction: Lectures and practical exercises in missile electronics, including basic electricity, solid-state devices, communication circuits, vacuum tube circuits, transistor circuits, and Lacrosse internal guidance system maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity and electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 4 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0125

Fixed Plant Carrier Equipment Repair

Course Number: *All Versions:* 101-32E20. *Version 2:* 11-R-274;1 11-R-297.1.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 28–29 weeks (1030–1031 hours). *Version 2:* 23–33 weeks (850–1230 hours).

Exhibit Dates: *Version 1:* 5/73–9/78. *Version 2:* 1/58–4/73.

Objectives: To train enlisted personnel to install, operate, maintain, and repair fixed-plant carrier and fixed-station radio equipment.

Instruction: *All Versions:* Lectures and practical exercises in fixed-plant carrier and fixed-station radio equipment operation, installation, maintenance, and repair, including electrical fundamentals, AC and DC series and parallel circuits, inductance and capacitance, vacuum tubes, semiconductors, electronic circuits, amplifiers, oscillators, and clippers and clampers; and specialized equipment operation, including telephones and telephone terminals, and telegraphs and telegraph terminals. *Version 2:* Instruction covers basic electronics in greater detail.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 32E.

AR-1715-0126

Nike Track Radar Repair (Improved Hercules Transition)
(Nike Track Radar Repair (Hercules Transition))

Course Number: 9-S-253.1 (T).

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 4–12 weeks (134–438 hours).

Exhibit Dates: 10/58–12/68.

Objectives: To train field maintenance personnel to maintain Nike Hercules tracking and ranging radar systems.

Instruction: Lectures and practical exercises in Nike Hercules tracking and ranging radar system functions, components operation, field maintenance test equipment, and detailed check-out and maintenance procedures.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AR-1715-0127

Hawk Missile and Launcher Repair (Transition Instruction)

Course Number: 121-22K20 (TI).

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 25 weeks (880 hours).

Exhibit Dates: 2/67–12/68.

Objectives: To train enlisted personnel to inspect, test, maintain, and repair the Hawk missile and launcher electronic systems.

Instruction: Lectures and practical exercises in the maintenance of the Hawk missile and launcher electronic systems, including AC and DC fundamentals (RCL, series, parallel, and series-parallel circuits, reactance, impedance, time constants); vacuum tubes, semiconductors, electronic circuits, amplifiers, clippers, clampers, oscillators, and transformers. Mathematics is pre-calculus.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 22K; 23V.

AR-1715-0128

1. Sergeant Test Equipment Repair
2. Sergeant Test Equipment Repairman

Course Number: 121-21T20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 27 weeks (938 hours). *Version 2:* 32 weeks (1157 hours).

Exhibit Dates: *Version 1:* 11/72–Present. *Version 2:* 1/67–10/72.

Objectives: To train enlisted personnel who have had previous training in algebra and general science to test, inspect, and repair Sergeant field maintenance test station equipment.

Instruction: Lectures and practical experience in Sergeant field maintenance test station inspection, testing, maintenance, and repair, including AC and DC circuit fundamentals (RLC circuits, series and parallel circuits, reactance, impedance, resonance, transients, and time constants), vacuum tubes, semiconductors, electronic circuits (amplifiers, clippers, clampers, gates, power supplies, and transformers), and mathematics through calculus.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electricity or electronics laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electtonics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 21T.

AR-1715-0129

Small Missile Systems Repair

Course Number: 632-426.1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 1[illegible] weeks (513 hours).

Exhibit Dates: 10/66–12/68.

Objectives: To train enlisted personnel to inspect, test, and maintain small missile systems, simulators and associated test equipment.

Instruction: Lectures and practical exercises in the maintenance of specific small missile systems; AC and DC fundamentals; vacuum tubes and semiconductors; basic electronic circuits; transformers; operation and components of specific equipment, simulators, and test equipment; and troubleshooting. Mathematics is pre-calculus.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, credit in electricity or electronics on the basis of institutional evaluation (3/74).

Related Occupation Codes: 45H.

AR-1715-0130

Land Combat Missile System Repair Technician

(Land Combat Support Missile System Repair Technician)

Course Number: 4F-271A; 121-F16.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 30 weeks (1071 hours). *Version 2:* 41 weeks (1459 hours). *Version 3:* 34 weeks (1189 hours).

Exhibit Dates: *Version 1:* 4/79–Present. *Version 2:* 1/71–3/79. *Version 3:* 9/67–12/70.

Objectives: To train warrant officers and enlisted personnel to inspect, test, maintain, and repair land combat support missile systems.

Instruction: *Version 1:* Lectures and practical exercises in land combat support missile systems testing, inspection, maintenance, and repair procedures, including limited coverage of electronic fundamentals; missile system logistical support; TOW/Dragon Missile system, Shillelagh weapon system, and Lance missile system operation, inspection, maintenance, and repair. Instruction places considerable emphasis on basic electricity, electronic principles and computer electronics. *Version 2:* Lectures and practical exercises in land combat support missile systems testing, inspection, maintenance, and repair procedures, including limited coverage of electronic fundamentals; missile system logistical support; Redeye weapon system, Shillelagh weapon system, and Chaparral/Vulcan weapon system operation, inspection, maintenance, and repair. Instruction places greater emphasis on pulse circuits in this version. *Version 3:* Lectures and practical exercises in land combat support missile systems testing, inspection, maintenance, and repair procedures, including limited coverage of electronic fundamentals; missile system logistical support; Redeye weapon system, Shillelagh weapon system, and Chaparral/Vulcan weapon system operation, inspection, maintenance, and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in laboratory techniques (8/79) in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 3 in computer systems, 5 laboratory measurements, and for those students enrolled in an electrical engineering program, 1 semester hour in personnel management and 3 in maintenance management (8/79). *Version 2:* In the vocational certificate category, 5 semester hours in electronic circuits (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic circuits (12/68); in the upper-division baccalaureate category, 3 semester hours in electronic circuits on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 8 semester hours in electronic circuits (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic circuits (12/68); in the upper-division baccalaureate category, 3 semester hours in electronic circuits on the basis of institutional evaluation (3/74).

AR-1715-0131

Light Target Missile Flight Control System Maintenance

Course Number: 198-31R20.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Combat Surveillance School, Ft. Huachuca, AZ.

Length: *Version 1:* 12 weeks (429 hours). *Version 2:* 13 weeks (454 hours).

Exhibit Dates: *Version 1:* 5/68–Present. *Version 2:* 7/66–4/68.

Objectives: To train enlisted personnel to operate and maintain the light target missile flight control system.

Instruction: Lectures and practical exercises in light target missile flight control system operation and maintenance, including AC and DC circuit theory, vacuum tube and semiconductor circuits, including clippers and clampers; operation of amplifiers, oscillators, and transformers; and MQM target control system block diagram, transmitter and receiver circuit analysis, alignment, installation, signal generator calibration, and troubleshooting.

Credit Recommendation: *Version 1:* In the vocational certificate category, 7 semester hours in electronics, 2 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 31R.

AR-1715-0132

Hawk Missile and Launcher Repair

Course Number: 121-22K20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 26–30 weeks (890–1032 hours); 26–30 weeks (1052–1316 hours). *Version 2:* 31–37 weeks (1143 hours); 31–37 weeks (1143 hours).

Exhibit Dates: *Version 1:* 4/74–Present. *Version 2:* 7/69–3/74. *Version 3:* 9/67–6/69.

Objectives: To train enlisted personnel to maintain and repair the Hawk missile launcher system.

Instruction: *All Versions:* Lectures and practical exercises in Hawk missile launcher system maintenance and repair, including AC and DC circuit theory; series, parallel, RCL and R,C,L circuits; RC and RL transients; series and parallel resonance; vacuum tubes, transistor circuits, single- and multistage amplifiers; power supplies; microwaves; and Hawk missile, launchers, and associated test equipment maintenance and repair. *Version 1:* Includes simplified explanation of RC and LC transients and sinewave oscillators; soldering techniques and practices; elementary theory of semiconductor devices and circuits; basic microwave procedures related to radar systems; basic manual skills and missile hydraulic systems; missile, launchers, and associated test equipment and repair. Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (26 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete Phases I and II (30 weeks).

Credit Recommendation: *Version 1:* In the vocational certificate category, 18 semester hours in basic electronics and troubleshooting for those students completing 26 weeks or 21 semester hours in basic electricity, electronics and troubleshooting for students attending 30 weeks of the course (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity and electronics for students attending 30 weeks of the course (see note above) (3/75). *Version 2:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, 2 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 22K.

AR-1715-0133

OV-1D (Mohawk) Aviator Combat Surveillance Qualification

Course Number: 2B-F19.

Location: Intelligence School, Ft. Huachuca, AZ; Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: *Version 1:* 5 weeks (132 hours). *Version 2:* 2–5 weeks (98–186 hours).

Exhibit Dates: *Version 1:* 5/79–Present. *Version 2:* 10/7[illegible]–4/79.

Objectives: To train OV-1 aviators to utilize D-model combat surveillance systems.

Instruction: *Version 1:* Course includes photographic surveillance systems, inertial navigation systems, electronic warfare operation, employment of photographic systems, infrared missions, and radar systems. *Version 2:* Lectures and practical exercises on KS-113 photographic surveillance system, inertial navigation systems, infrared detection set, operation procedures and employment techniques, infrared surveillance missions, and radar warning receivers.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aerial photo and photographic systems (6/79). *Version 2:* Credit is not recommended because of the military specific nature of the course (3/74).

AR-1715-0134

Hawk Continuous Wave (CW) Radar Maintenance

Course Number: *Version 1:* 104-24B20. *Version 2:* 104-24B20; 104-23R20; 44-R-221. *Version 3:* 44-R-221.1 44-N-221.1 44-N-F17.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 15 weeks (560-565 hours). *Version 2:* 23-29 weeks (852-1026 hours). *Version 3:* 23-28 weeks (772-997 hours).

Exhibit Dates: *Version 1:* 11/70-Present. *Version 2:* 5/63-10/70. *Version 3:* 6/58-4/63.

Objectives: To train enlisted personnel to maintain the Hawk continuous-wave radar system.

Instruction: *All Versions:* Lectures and practical experience in Hawk continuous-wave radar system maintenance, including basic electricity and electronics, AC and DC circuits, vacuum tube electronics, transistors, radar circuits, descriptive treatment of radar system components, and maintenance techniques and supply procedures. *Version 1:* Instruction includes soldering techniques, electrical units and color codes, and maintenance publications. *Version 2:* Instruction includes assault fire control console operation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electrical laboratory (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics, 6 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 24B.

AR-1715-0135

1. Station Technical Controller
2. Fixed Station Technical Controller
3. Fixed Station Technical Controller
4. Fixed Station Technical Controller

(Fixed Station Facilities Controller)

Course Number: *Version 1:* 101-32D10. *Version 2:* 101-32D20. *Version 3:* 101-32D20. *Version 4:* 11-R-273.1.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2* : Signal School, Ft. Gordon, GA. *Version 3* : Signal School, Ft. Monmouth, NJ. *Version 4* : Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 21 weeks (792 hours). *Version 2:* 18-24 weeks (659-882 hours). *Version 3:* 18-23 weeks (668-858 hours). *Version 4:* 10 weeks (361-362 hours).

Exhibit Dates: *Version 1:* 2/79-Present. *Version 2:* 6/76-1/79. *Version 3:* 10/67-5/76. *Version 4:* 7/64-9/67.

Objectives: To train enlisted personnel as maintenance technicians for fixed-station facilities.

Instruction: *Version 1:* Lectures and laboratory experience in the fundamentals of basic electronics, digital circuits, multiplexing techniques and digital communications transmission system control and operation at the block diagram level. *Version 2:* Lectures and laboratory experience in electrical fundamentals, semiconductor electronic circuits, radio and communication circuits; the application and troubleshooting of communication circuits as applied to the maintenance of fixed station facilities. Note: Students who have completed modules 201, 202, 203, and 204 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (18 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (24 weeks) of this course. *Version 3:* Lectures and laboratories in DC and AC fundamentals, electronic fundamentals (tubes and semiconductors), electronic circuits, radio and communication circuits, and application to maintenance activities. *Version 4:* Lectures and laboratories in terminal equipment, transmitter and receiver equipment, and system control and coordination.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in digital circuitry, 1 in basic electronics communications (8/79) in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics (8/79). *Version 2:* In the vocational certificate category, 3 semester hours in electronics laboratory for students who complete 18 weeks of the course or 2 semester hours in electricity or electronics and 5 semester hours in electricity or electronics laboratory for students who complete 24 weeks of the course (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics for students completing either 18 or 24 weeks of the course (see note above) (4/77). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics, 3 in electrical or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, 3 in electrical or electronics laboratory (4/74). *Version 4:* In the vocational certificate category, 3 semester hours in electrical or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical or electronics laboratory (4/74).

Related Occupation Codes: 09B; 32D.

AR-1715-0136

Intercept Demultiplex Systems Repairman

Course Number: 102-33F20.

Location: Security Agency School, Ft. Devens, MA.

Length: 17-18 weeks (600 hours).

Exhibit Dates: 3/68-Present.

Objectives: To train general intercept equipment repairmen in the specific operational and maintenance procedures associated with intercept demultiplex systems.

Instruction: The course is highly equipment oriented, with specific training in expert-level repair and maintenance procedures. Fundamentals and topics requiring analytical or abstract skills are not covered.

Credit Recommendation: Credit is not recommended credit because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 33B; 33F; 33Z.

AR-1715-0137

Telemetry Identification and Collection

(Telemetry Signal Analysis)

Course Number: 233-F3.

Location: Security Agency School, Ft. Devens, MA.

Length: 7-10 weeks (238-300 hours).

Exhibit Dates: 6/71-Present.

Objectives: To train enlisted personnel who have completed basic electronic intelligence courses to analyze telemetry signals.

Instruction: Lectures and practical exercises in recognition of telemetry signals, separation of desirable signals from noise, signal analysis, and report preparation.

Credit Recommendation: Credit is not recommended because of the specific-military nature of the course (9/77).

AR-1715-0138

1. Intercept Receiving Systems Repairman
2. Terminal Intercept Equipment Repair

Course Number: *Version 1:* 102-33C20. *Version 2:* 32-R-286.2.

Location: Security Agency School, Ft. Devens, MA.

Length: *Version 1:* 15 weeks (527 hours). *Version 2:* 20 weeks (663 hours).

Exhibit Dates: *Version 1:* 6/69-Present. *Version 2:* 5/60-5/69.

Objectives: To train enlisted personnel to inspect, install, test, and maintain terminal intercept equipment.

Instruction: *All Versions:* Lectures and practical exercises in electricity and electronics fundamentals, including AC and DC circuits, vacuum tubes, amplifiers, oscillators, antennas, transmission lines, and microwave components and measurement; communications fundamentals; demultiplex systems theory and equipment installation and maintenance; networks; electrical mathematics; and basic shop practice. *Version 1:* Instruction in mathematics fundamentals is not detailed and course emphasis is on practical applications of theory to terminal intercept equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electricity or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics, 3 in electricity or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 33B; 33C; 33Z.

AR-1715-0139

INTERCEPT RECORDING SYSTEMS REPAIRMAN

Course Number: 102-33D20.

Location: Security Agency School, Ft. Devens, MA.

Length: 17 weeks (768 hours).

Exhibit Dates: 4/69–Present.

Objectives: To train enlisted personnel to perform preventive and corrective maintenance on intercept recording systems.

Instruction: Lectures and practical exercises in intercept recording systems functions and descriptions, and components maintenance, alignment, adjustment, and troubleshooting procedures.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 32B; 33D; 33Z.

AR-1715-0140

IMPROVED NIKE HERCULES FIRE CONTROL SYSTEM MAINTENANCE TRANSITION

Course Number: 4B-F13; 121-F13; 44-H-F29.

Location: Air Defense School, Ft. Bliss, TX.

Length: 5–11 weeks (192–388 hours).

Exhibit Dates: 1/62–12/68.

Objectives: To train Nike Hercules fire control mechanics to operate, adjust, and maintain improved Nike Hercules fire control systems.

Instruction: Lectures and practical exercises on the employment, operation, adjustment, and maintenance of the Nike Hercules fire control system, and the improved Nike Hercules fire control system, including improved Nike Hercules target-track radars, and improved Nike Hercules acquisition radar systems.

Credit Recommendation: Credit is not recommended because of the specialized nature of the course (4/74).

Related Occupation Codes: 222B; 251B.

AR-1715-0141

HEAVY FIRE CONTROL EQUIPMENT REPAIR

Course Number: 9-R-232.1; 9-E-32.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 19 weeks (655–722 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train fire control repair helpers to inspect, test, and perform field and depot maintenance on heavy integrated electronic fire control equipment.

Instruction: Lectures and practical exercises in principles of M33 radar systems, basic M33 servo and computer systems, acquisition transmitting and receiving systems, track radar transmitting and receiving systems, maintenance and troubleshooting of acquisition and track radar systems, computing systems, maintenance and troubleshooting of complete computer systems, and integrated radar system performance and OPD 6.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

AR-1715-0142

ARTILLERY FIRE CONTROL SYSTEM MAINTENANCE SCR-584 AND DIRECTOR M9 OR M10

Course Number: 44-OE-27.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 16 weeks (600 hours).

Exhibit Dates: 6/55–12/68.

Objectives: To train warrant officer and enlisted personnel of the National Guard to employ, operate, adjust, and maintain artillery fire control systems and associated equipment.

Instruction: Lectures and practical exercises in introductory electronics, radar theory, and the use, maintenance, and repair of the SCR-584, the M12A1 remote control system, the Mark X IFF, and associated equipment.

Credit Recommendation: In the vocational certificate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0143

1. AVIONIC RADAR EQUIPMENT REPAIRMAN
2. AIRBORNE NAVIGATION RADAR REPAIR
3. AIRBORNE NAVIGATION RADAR REPAIR

Course Number: 102-35R10; 102-35R20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Monmouth, NJ. *Version 3:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 17–27 weeks (621–996 hours). *Version 2:* 27 weeks (1010 hours). *Version 3:* 26 weeks (972 hours).

Exhibit Dates: *Version 1:* 10/76–Present. *Version 2:* 2/70–9/76. *Version 3:* 11/68–1/70.

Objectives: To train enlisted personnel who have backgrounds in algebra and science to inspect, test, and repair airborne navigation radar systems.

Instruction: *All Versions:* Lectures and practical exercises in electrical fundamentals, amplifiers and receivers, signal generators and solid-state circuitry, logic circuits, airborne weather radar sets and radar navigation sets operation, semiconductor fundamentals, and supply procedures and catalogs. *Version 1:* Note: Students who have completed Modules 201, 202, 203, 4, 5, 6, and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (17 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (27 weeks) of this course. *Version 3:* Instruction includes microwave transmitters, receivers, and measurement procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in radar equipment operations laboratory for students who complete 17 weeks of the course or 6 semester hours in electronic circuits and troubleshooting and 3 semester hours in radar equipment operations laboratory for students who complete 27 weeks of the course (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic circuitry laboratory for students who complete either 17 or 27 weeks of the course (see note above) (4/77). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics, 6 in electrical or electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, 3 in electrical or electronics laboratory (3/74); in the upper-division baccalaureate category, credit in electrical or electronics laboratory on the basis of institutional examination (3/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics, 6 in electricity or electronics laboratory, 3 in microwaves (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, 3 in electricity or electronics laboratory, 3 in microwaves (3/74); in the upper-division baccalaureate category, credit in electronics or microwaves laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 35R; 35P; 09B.

AR-1715-0144

SIGNAL OFFICER BASIC BY CORRESPONDENCE

Course Number: E05.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 11/79–Present.

Objectives: To provide basic branch training in military readiness, support, and general maintenance of communications equipment.

Instruction: This course gives instruction in basic military preparedness, support, and operations. It also provides instruction in fundamental communications theory in radio, multichannel systems, and power equipment. Practical training in tactical radio, telecommuncations operations, and field maintenance is included. Credit recommendation is based on successful completion of the comprehensive end-of-course examination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics in the area of communications (5/79).

AR-1715-0145

SIGNAL OFFICER ADVANCED BY CORRESPONDENCE

Course Number: E25.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 11/79–Present.

Objectives: To orient the individual in basic electronics theory in order to understand the operation and use of various types of telecommunications equipment.

Instruction: This course gives instruction in AC, DC theory, vacuum tubes and solid-state devices, and various basic electronic circuits in order to understand the set-up and use of telephone switching systems, antennas, transmission lines, multichannel radio systems, RF radiation charts and TDM-PCM multichannel cable communication systems. A basic knowledge of the operation of general and special types of test equipment necessary to checkout telecommunication systems is also covered. Course includes comprehensive proctored end-of-course examination. Credit recommendation is based on successful completion of the examination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (5/79)

AR-1715-0146

HAWK ORGANIZATIONAL MAINTENANCE SUPERVISOR

Course Number: *All Versions:* 4F-223C; 121-F9. *Version 2:* 44-N-223C; 44-N-1184; 44-N-F22.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 37–39 weeks (1255–1321 hours). *Version 2:* 32–40 weeks (1112–1413 hours).

Exhibit Dates: *Version 1:* 7/68–Present. *Version 2:* 11/59–6/68.

Objectives: To train warrant officers and enlisted personnel to operate and maintain the Hawk missile systems and related equipment.

Instruction: Lectures and laboratories covering a detailed descriptive treatment of components, operation, and maintenance techniques of Hawk radar system and related equipment, including data converter AN/GSA-77 battery terminal equipment and self-propelled Hawk.

Credit Recommendation: *Version 1:* In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management, and credit in electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 24E, 24D, 24F, 24P, 24Q, 24U, 222B, 251B, 221B, 221C.

AR-1715-0147

1. GROUND SURVEILLANCE RADAR REPAIR
2. COMBAT AREA SURVEILLANCE RADAR REPAIRMAN

(Ground Surveillance Radar Mechanic (AN/TPS-33 and AN/PPS-4))

Course Number: 104-26C20.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Combat Surveillance School, Ft. Huachuca, AZ; Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: *Version 1:* 18 weeks (586 hours). *Version 2:* 5–8 weeks (191–284 hours).

Exhibit Dates: *Version 1:* 1/75–Present. *Version 2:* 9/66–12/74.

Objectives: To train enlisted personnel to maintain specific radar sets.

Instruction: *All Versions:* Lectures and practical exercises in the maintenance of the AN/PPS-4A, AN/PPS-5, AN/TPS-25, and AN/TPS-33 surveillance radar sets. *Version 1:* Topics include basic circuits, electronic theory, and troubleshooting.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in communication electronics (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics and 2 in electronics laboratory (6/75). *Version 2:* Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 26C; 26W.

AR-1715-0148

SATELLITE COMMUNICATIONS OFFICER

Course Number: 4C-F12.

Location: Signal School, Ft. Monmouth, NJ.

Length: 4 weeks (139–140 hours).

Exhibit Dates: 9/68–Present.

Objectives: To train commissioned officers and warrant officers to supervise the installation, operation, and maintenance of satellite communications equipment.

Instruction: Lectures and practical exercises in satellite communications, including electronics fundamentals, communications systems, and communications ground terminals, with instruction in modulation, transmitters, and receivers as related to satellite communication.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74). ; No credit because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 286A; 281A; 282A.

AR-1715-0149

ELECTRONIC SWITCHING SYSTEMS REPAIR

Course Number: 150-F7.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 38 weeks (409 hours). *Version 2:* 26 weeks (953 hours).

Exhibit Dates: *Version 1:* 8/77–Present. *Version 2:* 8/76–7/77.

Objectives: To provide enlisted personnel with the knowledge to install and perform organizational, direct support, and general support maintenance on the automatic telephone central office AN/TCC-38(V) and the AN/TCC-25(V).

Instruction: *Version 1:* Instruction includes computer programming and diagnostic troubleshooting, solid state logic circuitry, soldering training and printed circuit board repair, and tracing signal flow and performing diagnostic procedures on data processing circuits. Student also performs maintenance and repair on switching equipment. *Version 2:* Conferences and practical exercises to include system installation, hookup and initial operation; operator's, network/terminal, common control, and power subsystems; maintenance of equipment; marker, switching matrix, processor, and interface units.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in solid state circuits, 2 in soldering and printed circuit board repair (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer electronics, 2 in computer operations laboratory, 3 in computer troubleshooting (8/79). *Version 2:* In the vocational certificate category, 3 semester hours in electronic maintenance, 1 in telecommunications laboratory (3/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in computer operation laboratory (3/77).

AR-1715-0150

1. ARMOR COMMUNICATION CHIEF
2. ARMOR COMMUNICATION CHIEF
3. ARMOR COMMUNICATION CHIEF (Armor Communication Supervision)

Course Number: *All Versions:* 17-R-312.6. *Version 3:* 17-R-312.7 17-E-1.

Location: Armor School, Ft. Knox, KY.

Length: *Version 1:* 9 weeks (331 hours). *Version 2:* 7–8 weeks (265–290 hours). *Version 3:* 5–6 weeks (179–220 hours).

Exhibit Dates: *Version 1:* 10/63–12/68. *Version 2:* 8/61–9/63. *Version 3:* 7/55–7/61.

Objectives: To train armor communications specialists to supervise the operation, installation, and maintenance of communications equipment.

Instruction: *All Versions:* Lectures and practical exercises in communications maintenance, communications equipment procedures, and tactical and field communications operations. *Version 1:* Instruction includes communications theory.

Credit Recommendation: *Version 1:* Credit is not recommended because of the limited specialized nature of the course (3/74). *Version 2:* In the vocational certificate category, 3 semester hours in electricity or electronics, 3 in electricity or electronics laboratory (3/74). *Version 3:* Credit is not recommended because of the limited specialized nature of the course (3/74).

AR-1715-0151

MODE V SUBSCRIBER TERMINAL

Course Number: 622-F2.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ. *Version 3 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 4–9 weeks (152-342 hours). *Version 2:* 11 weeks (389 hours). *Version 3:* 6 weeks (228 hours).

Exhibit Dates: *Version 1:* 7/76–Present. *Version 2:* 1/73–6/76. *Version 3:* 7/68–12/72.

Objectives: To train teletypewriter repairmen to inspect, test, and repair Mode V subscriber terminal equipment.

Instruction: *All Versions:* Lectures and laboratories in electrical fundamentals, pulse generator circuitry, logic circuits, introduction to Mode V, teletypewriter control units, and low-level signaling units. *Version 1:* Note: Course is divided into 2 phases. Students may complete both Phases I and II (9 weeks) or Phase II only (4 weeks).

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in system maintenance and troubleshooting for completion of Phase I and 3 semester hours in system maintenance and troubleshooting for completion of Phase II (see note above) (4/77). *Version 2:* In the vocational certificate category, 3 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74). *Version 3:* Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 31J; 32G.

AR-1715-0152

MICROWAVE RADIO RELAY OPERATION

Course Number: 11-R-291.1; 11-E-53.

Location: Signal School, Ft. Monmouth, NJ.

Length: 10 weeks (356 hours).

Exhibit Dates: 10/55–12/68.

Objectives: To train enlisted personnel to operate and maintain microwave radio relay equipment.

Instruction: Lectures and laboratories in operation and maintenance of fixed and transportable multichannel microwave radio relay equipment, including microwave multiplex units, transmitters, receivers, repeaters, antenna tower assemblies, and associated power units.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0153

1. Field Artillery Target Acquistion Specialist
2. Sound Ranging Crewman
   (Artillery Sound Ranging)
   (Artillery Sound Ranging (Advanced))

Course Number: *Version 1:* 412-17C10. *Version 2:* 412-17C20; 6-R-155.2 6-E-12; 412-155.2 6-R-102.1.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK; Artillery and Guided Missile School, Ft. Sill, OK.

Length: *Version 1:* 5–10 weeks (150–300 hours). *Version 2:* 7–8 weeks (260–343 hours).

Exhibit Dates: *Version 1:* 12/76–Present. *Version 2:* 4/56–11/76.

Objectives: To train enlisted personnel to install, operate, and maintain field artillery sound-ranging systems.

Instruction: Lectures and practical exercises in communications; target acquisition and sound-ranging, including meteorology, sound-ranging techniques, procedures, and applications; and systems maintenance.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, credit in map reading and plotting on the basic of institutional evaluation. *Version 2:* In the upper-division baccalaureate category, credit in plotting or surveying on the basis of institutional evaluation (12/68).

Related Occupation Codes: 17C.

AR-1715-0154

Fire Unit Integration Facilities (FUIF) Repair

Course Number: 11-N-298.1.

Location: Signal Fire Distribution Systems Training Activity, Ft. Bliss, TX.

Length: 11 weeks (394 hours).

Exhibit Dates: 6/61–12/68.

Objectives: To train warrant officers and enlisted personnel who have a knowledge of electronics engineering and/or radio electronics to maintain the fire unit integration facilities (FUIF).

Instruction: Lectures and practical exercises in the maintenance of the fire unit integration facilities subsystem of the AN/FSG-1 missile master, including function and description of system and system components; coordinate data set receiver and transmitter, data conversion circuits, system analysis, battery presentation system, target designation data link, and other fire distribution systems; and troubleshooting and tests.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

AR-1715-0155

Meteorological Equipment Repairman

Course Number: 198-35D30.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 20 weeks (753 hours).

Exhibit Dates: 7/67–Present.

Objectives: To train enlisted personnel to maintain and repair electronic meteorological equipment.

Instruction: Lectures and practical exercises in the maintenance and repair of electronic meteorological equipment used in artillery ballistic meteorology sections and research and development activities, including electrical fundamentals (DC and AC), electronic fundamentals (vacuum tube only), radio fundamentals (transmitters and receivers), special circuits, target acquisition, tactical subjects, and applications to maintenance procedures for specific equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 35D.

AR-1715-0156

Weapons Support Radar Repair

Course Number: 104-26B30.

Location: Signal School, Ft. Monmouth, NJ.

Length: 30 weeks (1124 hours).

Exhibit Dates: 12/66–11/73.

Objectives: To train enlisted personnel to maintain and repair weapons support radar equipment.

Instruction: (Note: For course after 11/73, see AR-1715-0362.) Lectures and practical exercises in the maintenance and repair of weapons support radar equipment, including AC and DC fundamentals, electronic fundamentals, electronic circuits, microwave circuits and measurements, semiconductors, servo and data circuitry, timer indicator components, nonsinusoidal circuitry, and inspection and testing of specific radar equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics, 3 in electricity or electronics laboratory, 3 in microwave measurements (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 26B; 26W.

AR-1715-0157

Marine Radar Observer

Course Number: 8C-F1; 813-F1.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (72–84 hours).

Exhibit Dates: 10/72–Present.

Objectives: To provide water craft operators with a working knowledge of the fundamentals in the operation, use, interpretation, and analysis of radar.

Instruction: Training includes principles of radar, radar navigation and plotting, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in radar operation (6/75).

Related Occupation Codes: 61B.

AR-1715-0158

Ordnance Fire Control Materiel Maintenance

Course Number: 9-B-4806.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 20 weeks (712 hours).

Exhibit Dates: 4/57–12/68.

Objectives: To train commissioned officers to supervise the maintenance and repair of fire control equipment.

Instruction: Lectures and practical exercises in basic AC and DC circuit theory and an extensive survey of electronic system components and instrumentation, with emphasis on vacuum tubes, radar electronics, mathematics, and antiaircraft fire control system maintenance and repair procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics for non-electrical-engineering majors (12/68).

AR-1715-0159

1. Hawk Pulse Radar Repair
2. Hawk Pulse Radar Repair
3. Hawk Pulse Radar Repair
4. Hawk Pulse Radar Repair (Non-US)
5. Hawk Pulse Radar Repair
   (Hawk Pulse Acquisition Radar and Battery Control Repair)
6. Hawk Pulse Acquisition Radar and Battery Control Repair

Course Number: *Version 1:* 104-23S20. *Version 2:* 104-23S20. *Version 3:* 104-23S20. *Version 4:* 104-23S20. *Version 5:* 104-23S20; 104-255.1. *Version 6:* 9-S-255;1 9-S-255.1.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL. *Version 3:* Missile and Munitions School, Redstone Arsenal, AL. *Version 4:* Missile and Munitions School, Redstone Arsenal, AL. *Version 5:* Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL. *Version 6:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 21–25 weeks (726–868 hours). *Version 2:* 27 weeks (899 hours). *Version 3:* 32 weeks (1125 hours). *Version 4:* 38 weeks (1365 hours). *Version 5:* 31–46 weeks (1103–1697 hours). *Version 6:* 21–25 weeks (767–911 hours).

Exhibit Dates: *Version 1:* 4/74–Present. *Version 2:* 11/72–3/74. *Version 3:* 6/71–10/72. *Version 4:* 2/70–5/71. *Version 5:* 2/63–1/70. *Version 6:* 1/59–1/63.

Objectives: To train personnel to maintain Hawk pulse radar systems.

Instruction: *All Versions:* Lectures and practical exercises in AC and DC circuits, transients, vacuum tubes, and basic electronic circuits; radar principles, pulse radars, and radar electronics; microwaves; and shop practice and test equipment operation and maintenance, including a descriptive treatment of Hawk radar system components and maintenance techniques. *Version 1:* Includes simplified explanation of RC and LC transients and sine-wave oscillators; soldering techniques and practices; empirical description of operation of vacuum-tube pulse circuits; basic microwave procedures related to radar systems; and shop practice and test equipment operation and maintenance to include a descriptive treatment of Hawk radar system components and maintenance techniques. Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (21 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete Phases I and II (25 weeks).

Credit Recommendation: *Version 1:* In the vocational certificate category, 14 semester hours in basic electronics and troubleshooting for those students completing 21 weeks or 17 semester hours in basic electricity, electronics and troubleshooting for students attending 25 weeks of the course (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity or electronics for students attending 25 weeks of the course (see note above) (3/75). *Version 2:* In the vocational certificate category, 4 semester hours in electricity or electronics, 4 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, 2 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 4 semester hours in electricity or electronics, 6 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, 3 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 4:* In the vocational certificate category, 6 semester hours in electricity or electronics, 6 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, 3 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 5:* In the vocational certificate category, 4 semester hours in electricity or electronics, 6 in radar technology, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 6:* In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 23S.

AR-1715-0160

1. SPECIAL ELECTRICAL DEVICE REPAIRER
2. SPECIAL ELECTRICAL/ELECTRONIC DEVICE REPAIR
3. SPECIAL ELECTRICAL/ELECTRONIC DEVICE REPAIR
4. SPECIAL ELECTRICAL/ELECTRONIC DEVICE REPAIR
5. SPECIAL ELECTRICAL DEVICE REPAIR

Course Number: *Version 1:* 198-35E10. *Version 2:* 198-35E20. *Version 3:* 198-35E20. *Version 4:* 198-35E20. *Version 5:* 5-E-19.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 17 weeks (520 hours). *Version 2:* 11 weeks (383 hours). *Version 3:* 11 weeks (369–383 hours). *Version 4:* 11 weeks (421 hours). *Version 5:* 10–14 weeks (368–560 hours).

Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 9/74–2/78. *Version 3:* 6/72–8/74. *Version 4:* 8/66–5/72. *Version 5:* 3/54–7/66.

Objectives: To train enlisted personnel to maintain electronic detection and night vision equipment.

Instruction: Lectures and practical exercises in electronic fundamentals, AC and DC circuits, electrical mathematics, battlefield illumination, night vision equipment operation and maintenance, mine detectors, and use and care of hand tools.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in basic electricity, 1 in electronics (9/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of electricity, 3 in basic electronics (9/79). *Version 2:* In the vocational certificate category, 2 semester hours in basic electricity (9/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of electricity (9/79) *Version 3:* In the vocational certificate category, 2 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity (3/74). *Version 4:* In the vocational certificate category, 2 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity (3/74); in the upper-division baccalaureate category, credit in electricity on the basis of institutional evaluation (12/68). *Version 5:* In the vocational certificate category, 4 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68).

Related Occupation Codes: 35E.

AR-1715-0161

INERTIAL NAVIGATION SET AN/ASN-86 REPAIR

Course Number: 102-F13.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 10 weeks (353–362 hours).

Exhibit Dates: 7/73–Present.

Objectives: To train avionic radar equipment repairmen to inspect, test, and maintain the AN/ASN-86 inertial navigation set.

Instruction: Lectures and practical exercises in the maintenance of the AN/ASN-86 inertial navigation set, including control indicator, navigation computer, computer interface A/D and D/A, gyro-stabilized platform and repair test, and special test instruments.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics (3/74).

Related Occupation Codes: 35R; 32P.

AR-1715-0162

VULCAN MECHANIC

Course Number: 121-24M20.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 10–12 weeks (373–420 hours). *Version 2:* 20 weeks (713 hours). *Version 3:* 11 weeks (415 hours).

Exhibit Dates: *Version 1:* 5/70–Present. *Version 2:* 6/69–5/70. *Version 3:* 7/68–5/69.

Objectives: To train enlisted personnel to maintain Vulcan weapons systems, associated accessories, and range-only radar equipment.

Instruction: *All Versions:* Lectures and laboratories in armament and turret electronics and towed Vulcan systems, maintenance management, and equipment records systems. *Version 1:* Includes lectures and laboratories in basic electronics. *Version 2:* Includes lectures and laboratories in basic electronics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electricity (2/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (2/75); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for non-electronics majors (2/75). *Version 2:* In the vocational certificate category, 6 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity (3/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for non-electronics majors (3/74). *Version 3:* In the vocational certificate category, 1 semester hour in electricity (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity (3/74).

Related Occupation Codes: 24M.

AR-1715-0163

OVERSEAS ASC COMMUNICATION EQUIPMENT REPAIR
(ADMSC Communication Equipment Repair)

Course Number: 622-F6.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 8–16 weeks (298–590 hours).

Exhibit Dates: 4/68–Present.

Objectives: To train fixed-plant carrier equipment repairmen to install, operate, and repair overseas automatic digital message switching center equipment.

Instruction: Lectures and practical exercises in overseas communication equipment familiarization, coordination simulator, troubleshooting procedures, and communication facilities.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (3/74).

Related Occupation Codes: 32E.

AR-1715-0164

1. NIKE TRACK RADAR REPAIR
2. NIKE TRACK RADAR REPAIR
   (Nike Track Radar Systems Repair (Ajax/Hercules))
   (SAM Track Radar Systems Repair)

Course Number: *All Versions:* 9-S-253.1. *Version 2:* 9-R-253;1 9-E-64.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 36 weeks (1353 hours). *Version 2:* 20–26 weeks (720–974 hours).

Exhibit Dates: *Version 1:* 2/63–12/68. *Version 2:* 12/55–1/63.

Objectives: To train enlisted and civilian personnel to inspect, test, and maintain Nike Hercules/Ajax missile-tracking and target-tracking radar systems.

Instruction: *All Versions:* Lectures and laboratories in tracking radars and field maintenance test equipment. *Version 1:* Includes missile electronics fundamentals. *Version 2:* Includes missile radar fundamentals and missile radar circuits.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electricity or electronics, 6 in electricity or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* Credit is not recommended because of the limited specialized nature of the course (4/74).

AR-1715-0165

AN/MPQ-T1 RADAR SIGNAL SIMULATOR MAINTENANCE

Course Number: 121-24Q30; 4C-F6; 121-F11; 44-H-F43.

Location: Air Defense School, Ft. Bliss, TX.

Length: 10–12 weeks (353–456 hours).

Exhibit Dates: 10/64–Present.

Objectives: To train warrant officers and enlisted personnel to operate, adjust, and maintain AN/MPQ-T1 radar signal simulators.

Instruction: Topics include information on system AC and DC power distribution, semiconductor applications, block diagram analysis, oscilloscope operation, troubleshooting and corrective maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory or electronics maintenance (3/75); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory or electronics maintenance on the basis of institutional evaluation (3/75).

Related Occupation Codes: 24Q.

AR-1715-0166

AIR DEFENSE RADAR REPAIR

Course Number: 104-26H20.

Location: *All Versions:* Signal School, Ft. Monmouth, NJ. *Version 1:* Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 35 weeks (1194 hours). *Version 2:* 35 weeks (1134–1161 hours). *Version 3:* 31 weeks (1100 hours). *Version 4:* 32 weeks (1200 hours).

Exhibit Dates: *Version 1:* 8/76–Present. *Version 2:* 11/74–7/76. *Version 3:* 3/73–10/74. *Version 4:* 12/66–2/73.

Objectives: To train enlisted personnel to inspect, test, and repair defense radar equipment.

Instruction: Lectures and laboratories in DC and AC circuits, vacuum tubes, solid-state electronics, electronic circuits, microwave electronics, servos and data circuitry, and radar set familiarization.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in electronics circuits, 1 in digital logic, 10 in electronic circuit troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic circuits applications, 2 in electronics circuits laboratory, both on the basis of institutional evaluation (8/77). *Version 2:* In the vocational certificate category, 6 semester hours in electronics laboratory, 6 in electronics maintenance (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronics maintenance or as an elective in electronic systems (2/75); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (2/75). *Version 3:* In the vocational certificate category, 6 semester hours in electricity and electronics, 6 in electrical and electronics laboratory, 3 in microwave measurements (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics, 3 in electrical and electronics laboratory, 3 in microwave measurement (4/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (4/74). *Version 4:* In the vocational certificate category, 6 semester hours in electricity and electronics, 6 in electrical and electronics laboratory, 3 in microwave measurements (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity and electronics (12/68).

Related Occupation Codes: 26H; 26W.

AR-1715-0167

RADAR REPAIR

Course Number: 11-R-282.1; 11-E-21.

Location: Signal School, Ft. Monmouth, NJ.

Length: 33 weeks (1230 hours).

Exhibit Dates: 2/54–12/68.

Objectives: To train enlisted personnel to inspect, test, repair, and maintain ground radar equipment.

Instruction: Lectures and laboratories in DC and AC circuits, vacuum tubes, electronic circuits, solid-state electronics, microwave electronics, servos and data circuitry, troubleshooting techniques, and radar set familiarization.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity and electronics, 6 in electrical and electronics laboratory, 3 in microwave measurement (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity and electronics (12/68).

AR-1715-0168

OV-1D (MOHAWK) AIRBORNE RADAR REPAIR

Course Number: 104-F11.

Location: Intelligence School, Ft. Huachuca, AZ; Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: *Version 1:* 6 weeks (186–187 hours). *Version 2:* 6–13 weeks (186–459 hours).

Exhibit Dates: *Version 1:* 1/74–3/79. *Version 2:* 6/72–12/73.

Objectives: To provide personnel with knowledge necessary to maintain the airborne surveillance radar of the OV-ID (Mohawk) system.

Instruction: *All Versions:* Lectures and practical exercises in operation, maintenance, and troubleshooting procedures for OV-ID (Mohawk) airborne radar systems. *Version 1:* Student will perform organizational, direct and general support maintenance.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 9 semester hours in basic electronics theory and laboratory (6/79). *Version 2:* Credit is not recommended because of the limited specialized nature of the course (6/75).

Related Occupation Codes: 26M.

AR-1715-0169

FORWARD AREA ALERTING RADAR REPAIR

Course Number: 104-F12.

Location: Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: 11 weeks (373 hours).

Exhibit Dates: 10/72–Present.

Objectives: To train enlisted personnel to perform direct and general support maintenance on specific radar systems and associated equipment.

Instruction: Lectures and practical exercise in the maintenance procedures for the forward-area alert radar, including system logic; power distribution system; receiving, display, and data link systems; circuit analysis; various testing systems; the stimulus generator; and system troubleshooting.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 26C; 26W.

AR-1715-0170

LIGHT FIRE CONTROL EQUIPMENT REPAIR

Course Number: 9-R-231.1; 9-E-53.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 16 weeks (560–608 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train personnel to inspect, test, and maintain light, integrated electronic fire control systems.

Instruction: Lectures and practical exercises on light fire-control equipment, including system components, conversion, prediction, inversion, and ballistic units; malfunction and feedback systems; power control; auxiliary equipment; and specific instruction on M4 systems maintenance.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

AR-1715-0171

1. AN/MPQ-36 RADAR SIGNAL SIMULATOR MAINTENANCE
(15D2 Radar Signal Simulator Maintenance)
2. 15D2 RADAR TARGET SIMULATOR MAINTENANCE

Course Number: 44-R-F13.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 7–9 weeks (250–308 hours). *Version 2:* 10 weeks (375–381 hours).

Exhibit Dates: *Version 1:* 2/60–12/68. *Version 2:* 3/58–1/60.

Objectives: To train enlisted missile or air defense fire control mechanics to operate and maintain AN/MPQ-36 or 15D2 radar simulators.

Instruction: *All Versions:* Lectures and practical exercises in radar simulator operation and maintenance, including target simulator, jamming simulation, missile simulation, and monitor circuits. *Version 1:* Instruction includes operator training and AN/MPQ-36 radar simulator familiarization. *Version 2:* Instruction includes basic electronics review, manipulator training, and servo systems introduction.

Credit Recommendation: Credit is not recommended because of the specialized nature of the course (4/74).

AR-1715-0172

AN/MPS-23 Radar Repair

Course Number: 4C-F2; 104-181.3; 11-N-282.3.

Location: Air Defense School, Ft. Bliss, TX.

Length: 16 weeks (565–586 hours).

Exhibit Dates: 10/63–12/68.

Objectives: To train warrant officers and enlisted personnel to operate and maintain AN/MPS-23 and AN/MPS-23A radar sets.

Instruction: Lectures and laboratories in radar set theory, programmer and transmitters, indicators and testing functions, system maintenace, and troubleshooting procedures.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 211A.

AR-1715-0173

Radar Tracking Station Equipment Repair
(Radar Tracking Station Repair)

Course Number: 11-N-362.2; 11-N-F24.

Location: Air Defense School, Ft. Bliss, TX.

Length: 18–27 weeks (660–929 hours).

Exhibit Dates: 4/62–12/68.

Objectives: To train experienced electronics technicians to maintain the OA-2952/GSQ radar tracking station.

Instruction: Lectures and practical exercises in radar tracking station equipment maintenance, including radar station fundamentals; comprehensive survey of logic circuitry and systems; computer and automatic data link operation and troubleshooting; radar integration unit operation and troubleshooting procedures; and system check-out, alignment, installation, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer technology (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer technology (4/74); in the upper-division baccalaureate category, credit in computer technology laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 211A.

AR-1715-0174

Improved Alternate Battery Acquisition Radar Maintenance Transition

Course Number: 4B-222B-T; 104-26J20-T; 104-229.1T.

Location: Air Defense School, Ft. Bliss, TX.

Length: 6–7 weeks (256–288 hours).

Exhibit Dates: 12/65–12/68.

Objectives: To train fire control and radar mechanics to operate, adjust, and maintain improved, alternate battery acquisition radars and associated ECCM consoles.

Instruction: Lectures and practical exercises in improved, alternate battery acquisition radar equipment operation, adjustment, and maintenance, including an introduction to ABAR and ECCM consoles; equipment record system familiarization; operation, adjustment, and troubleshooting of various transmitters, receivers, and transistors; test equipment usage; and functional operation, adjustment, alignment, and troubleshooting procedures for ECCM consoles.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/744).

Related Occupation Codes: 23G; 26J.

AR-1715-0175

Meteorological Equipment Mechanic
(Weather Equipment Maintenance)

Course Number: 198-205.1; 6-R-205.1; 6-N-201A; 6-N-8219; 6-N-205.1; 6-N-215.3; 6-OE-36.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 14–16 weeks (509–599 hours).

Exhibit Dates: 10/54–12/68.

Objectives: To train enlisted personnel to operate and maintain electrical meteorological equipment.

Instruction: Lectures and loboratory in electrical meteorological equipment operation and maintenance, including AC and DC circuts; circuit components; communications system vacuum tube circuits and components, and gas tubes; and transmitters/receivers operation and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of insitutional evaluation (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics for non-electrical-engineering majors (4/74).

Related Occupation Codes: 35D.

AR-1715-0176

1. Weapons Support Radar Maintenance
2. Weapons Support Radar Maintenance
(Field Artillery Radar Maintenance)
3. Field Artillery Radar Maintenance

Course Number: *Version 1:* 104-26B20; 4C-211A. *Version 2:* 4C-211A; 104-26B20; 6-N-211A; 6-N-211;3 6-N-1121; 6-N-211.2. *Version 3:* 6-N-1121; 6-N-211;1 6-N-211;2 6-OE-37.

Location: *Version 1:* Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK. *Version 2:* Artillery and Missile School, Ft. Sill, OK. *Version 3:* Artillery and Missile School, Ft. Sill, OK; Artillery and Guided Missile School, Ft. Sill, OK.

Length: *Version 1:* 24–27 weeks (891–1001 hours). *Version 2:* 32–37 weeks (968–1223 hours). *Version 3:* 24–30 weeks (1010–1269 hours).

Exhibit Dates: *Version 1:* 8/68–11/73. *Version 2:* 5/61–7/68. *Version 3:* 3/56–4/61.

Instruction: (Note: For course after 11/73, see AR-1715-0362.) Lectures and laboratories in mathematics review, including algebra, trigonometry, and vector number work; fundamentals of electricity and electronics; radar fundamentals; and utilization of ; Lectures and laboratories in mathematics review, including algebra, trigonometry, and vector number work; fundamentals of electricity and electronics; radar fundamentals; and utilization of multimeters, oscilloscopes, AC circuit transformers, DC-AC machines, and electronic (vacuum tube) circuits and systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, 1 in electrical laboratory for non-engineering majors (4/74). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, 1 in electrical laboratory for non-engineering majors (4/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, 1 in electrical laboratory for non-engineering majors (4/74).

Related Occupation Codes: 26B; 26W; 211A.

AR-1715-0177

Field Artillery Radar Technician

Course Number: 4C-211A; 104-F8.

Location: Field Artillery School, Ft. Sill, OK.

Length: 8 weeks (279 hours).

Exhibit Dates: 1/70–Present.

Objectives: To train warrant officers and enlisted personnel who have backgrounds in electronics, general science, and radar operation and maintenance to operate and maintain weapons support radar equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of weapons support radar equipment, including fire direction, fire observation, operation of various radar sets, artillery transport, communications/electronics subjects related to radio and radar, tactics, and target acquisition.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 26B; 211A.

AR-1715-0178

1. Ground Surveillance Radar Crewman
2. Ground Surveillance Radar Operation
(Ground Surveillance Radar Operator)

Course Number: 221-17K20.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ; Combat Surveillance School, Ft. Huachuca, AZ.

Length: *Version 1:* 6 weeks (194 hours). *Version 2:* 4–7 weeks (132–252 hours).

Exhibit Dates: *Version 1:* 1/75–Present. *Version 2:* 7/69–12/74.

Objectives: To train enlisted personnel to operate ground surveillance radar equipment.

Instruction: Lectures, practical exercises, and demonstrations in AN/PPS-4A, AN/PPS-5A, AN/TPS-33A, and AN/TPS-25A ground surveillance radar equipment operation and maintenance procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in logical troubleshooting techniques (6/75). *Version 2:* Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 17K.

AR-1715-0179

1. AIR DEFENSE ACQUISITION RADAR MAINTENANCE
2. AIR DEFENSE ACQUISITION RADAR MAINTENANCE
   (Defense Acquisition Radar Maintenance)
3. SURVEILLANCE RADAR MAINTENANCE
   (Artillery Surveillance Radar Maintenance)

Course Number: *Version 1:* 104-24P20. *Version 2:* 4B-222B-B; 44-R-229;1 104-24P20; 44-R-212;2 104-26J20. *Version 3:* 44-R-212;2 44-F-35.

Location: *All Versions:* Air Defense School, Ft. Bliss, TX. *Version 3:* Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 38–40 weeks (1332–1404 hours). *Version 2:* 18–44 weeks (663–1526 hours). *Version 3:* 22–24 weeks (842–950 hours).

Exhibit Dates: *Version 1:* 6/70–Present. *Version 2:* 6/58–5/70. *Version 3:* 2/55–5/58.

Objectives: To train enlisted personnel to operate, adjust, and maintain defense acquisition radars.

Instruction: *All Versions:* Lectures and practical exercises in electrical and electronic fundamentals; extensive briefing and maintenance practice on radar equipment; mathematics; and modulator, transmitter, receiver, MTI, DC control, indicator and repeater systems operation, adjustment, and maintenance. *Version 2:* Instruction includes more electrical and electronic fundamentals, vacuum tube-based electronics and extensive vacuum tube circuit measurement. *Version 3:* Instruction includes more electrical and electronic fundamentals, vacuum tube-based electronics and extensive vacuum tube circuit measurement.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electricity or electronics, 2 in electrical or electronics laboratory (2/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical or electronics laboratory (2/75). *Version 2:* In the vocational certificate category, 6 semester hours in electricity or electronics, 3 in electrical or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics, 3 in electrical or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68).

Related Occupation Codes: 24P.

AR-1715-0180

NIKE HIGH POWER ACQUISITION RADAR AND RADAR SIMULATOR REPAIR
(Nike Hipar and Radar Simulator Repairer)

Course Number: *All Versions:* 104-23U20. *Version 3:* 104-F4; 9-S-F49.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 34–36 weeks (1129–1249 hours). *Version 2:* 28–34 weeks (987–1150 hours). *Version 3:* 34–44 weeks (1177–1605 hours).

Exhibit Dates: *Version 1:* 5/78–Present. *Version 2:* 5/74–4/78. *Version 3:* 7/64–4/74.

Objectives: To train enlisted personnel who have backgrounds in general science and algebra to inspect, test, and maintain high-power acquisition radar equipment and radar signal simulator stations.

Instruction: *Version 1:* Lectures and laboratory exercises include basic AC, and DC circuits, a simplified coverage of RC and LC transients and sinewave oscillators; soldering techniques and practices; elementary theory of semiconductor devices and circuits; empirical description of operation of vacuum tube pulse circuits; basic microwave procedures related to radar systems; and high power acquisition radar hardware familiarization and techniques. *Version 2:* Lectures and laboratory exercises include a simplified coverage of RC and LC transients and sine-wave oscillators; soldering techniques and practices; elementary theory of semiconductor devices and circuits; empirical description of operation of vacuum tube pulse circuits; basic microwave procedures related to radar systems; and high power acquisition radar hardware familiarization and techniques. Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will attend only Phase II (30 weeks) of this course. COBET was revised in 6/75; students who have completed Modules 1, 2, 3, 4/5 and 6, at Ft. Jackson, SC will attend only Phase II (27–28 weeks). See AR-1715-0389 for credit recommendation for COBET. Students who do not attend COBET will complete both Phases I and II (33–34 weeks) of this course. *Version 3:* Lectures and practical exercises in basic electronics, including electrical and electronic circuit fundamentals, AC and DC circuits, series-parallel and combination circuits, inductance, capacitance, magnetism, transformers, impedance using vector mathematics, RL and RC transients, resonance, synchros, tubes and tube circuit applications, microwave sources and power measurements, microwave transmitters and receivers, modulation principles, pulse and timing circuits, CRT displays, power supplies, and regulators; multimeter, oscilloscope, and advanced test instruments operation; and high-power acquisition radar hardware familiarization and techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in electronic equipment repair techniques (8/79); In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in transistor theory, 2 in vacuum tube circuit theory, 1 in microwave theory, and 3 in circuits/electronics laboratory (8/79). *Version 2:* In the vocational certificate category, 23 semester hours in basic electricity, electronics, and troubleshooting for those students completing 33–34 weeks; or 20 semester hours in basic electronics and troubleshooting for those students completing 27–30 weeks (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity or electronics for those students completing 33–34 weeks; no credit for those students completing 27–30 weeks (see note above) (3/75). *Version 3:* In the vocational certificate category, 24 semester hours in electrical circuits or electronics (4/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in electrical circuits or electronics (4/74); in the upper-division baccalaureate category, 6 semester hours in electrical circuits or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 23U.

AR-1715-0181

1. RCAT RADIO MAINTENANCE
2. RADIO-CONTROLLED AIRPLANE TARGET RADIO MAINTENANCE

Course Number: *Version 1:* 44-R-209;1 44-R-209.2. *All Versions:* 44-E-23.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 9 weeks (315–350 hours). *Version 2:* 7 weeks (229 hours).

Exhibit Dates: *Version 1:* 3/57–12/68. *Version 2:* 3/53–2/57.

Objectives: To train enlisted personnel to test, adjust, and maintain radio-controlled aircraft target radios, gyros, and autopilot equipment.

Instruction: Lectures and practical exercises in basic electricity, including AC and DC circuits; series, parallel, and RLC circuits; motors, generators, and vacuum tubes; C-2 flight control system testing, adjustment, and maintenance; and control systems preflight procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics (3/74); in the upper-division baccalaureate category, credit in electricity on the basis of institutional evaluation (3/74). *Version 2:* Insufficient data for evaluation (3/74).

AR-1715-0182

1. RADIO WAVE PROPAGATION
2. RADIO PROPAGATION
3. RADIO WAVE PROPAGATION

Course Number: *Version 1:* 198-26P20. *Version 2:* 198-26P20. *Version 3:* 11-R-287.1.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 24–29 weeks (850–1086 hours). *Version 2:* 29 weeks (1086 hours). *Version 3:* 28 weeks (1078–1080 hours).

Exhibit Dates: *Version 1:* 12/69–Present. *Version 2:* 12/66–11/69. *Version 3:* 12/56–11/66.

Objectives: To train enlisted personnel to install, operate, and maintain radio frequency hazards and interference-measuring equipment, and oblique-incidence-sounding equipment.

Instruction: Lectures and practical exercises in electrical fundamentals; electronics as applied to basic transmitters and receivers, nonsinusoidal circuitry, microwave transmitters, modulators, and receivers; ionosphere theory; ionogram analysis; vertical incidence equipment theory and maintenance; film records photographic processing; field station operation; and troubleshooting procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 26P.

AR-1715-0183

Radio Set LRC-3 Repair

Course Number: 101-F7.

Location: Signal School, Ft. Monmouth, NJ.

Length: 8 weeks (304 hours).

Exhibit Dates: 1/67–Present.

Objectives: To train microwave systems repairmen to install and maintain the LRC-3 radio set.

Instruction: Lectures and practical exercises in LRC-3 radio set installation and maintenance, including principles of tropospheric scatter communication; LRC-3 system introduction; transmitter and receiver sections components operation and preventive maintenance procedures; auxiliary equipment, including teletype order wire and supervisory alarm system operation and preventive maintenance; multiplex equipment block-diagram analysis, troubleshooting, and preventive maintenance; and system alignment and adjustment procedures.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

Related Occupation Codes: 26V.

AR-1715-0184

Basic Radio Relay and Carrier Repair

Course Number: 101-294.0; 11-R-294.0.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 19 weeks (703 hours).

Exhibit Dates: 2/65–12/68.

Objectives: To train enlisted personnel to install, operate, and maintain radio relay and carrier equipment.

Instruction: Lectures and practical exercises in the installation, operation, and maintenance of radio relay and carrier equipment, including electronic fundamentals, DC and AC circuitry, motors, generators, reactance, vacuum tubes, modulation principles, amplifiers, magnetism, transformers, oscilloscopes, block-diagrams of specific radio equipment, telephone terminal system, telephone repeater, and test and repair procedures for system components.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AR-1715-0185

DECCA Transmitting Equipment Repair

Course Number: 102-F3.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 7–10 weeks (254–345 hours).

Exhibit Dates: 3/67–Present.

Objectives: To train enlisted personnel to operate and maintain DECCA Mark 5 navigational radio transmitters.

Instruction: Lectures and practical exercises in DECCA Mark 5 navigational radio transmitter operation and maintenance, including hyperbolic navigational system introduction, time-shared transmissions, master station and slave station layout, oscilloscope operation, oscillators, pulse-forming circuits, switching and monitoring circuits, Mark 10 master and slave station operation and maintenance, and system circuit analysis and power supplies operation.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electronics (3/74).

Related Occupation Codes: 32C; 32Z.

AR-1715-0186

Radio Officer

Course Number: 4C-0500; 11-A-0500.

Location: Signal School, Ft. Monmouth, NJ.

Length: 11–13 weeks (390–456 hours).

Exhibit Dates: 4/59–12/67.

Objectives: To train commissioned officers to supervise the operation and maintenance of field and fixed-station radio equipment.

Instruction: Lectures and practical exercises in electrical fundamentals, vacuum tubes and amplifiers, AM and FM receivers and transmitters, electronic components and radar, antennas, wave propagation, frequency allocation, small field radio sets and AN/GRC-26 radio set operation, radio telegraph operation, communications operations, and fixed-station, single- and multichannel transmitting and receiving stations.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electricity and electrical laboratory (4/74).

AR-1715-0187

Corporal Doppler Repair
(SSM Doppler Repair)

Course Number: 9-R-241.1; 9-E-58.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 10–12 weeks (350–428 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train qualified electronic repair helpers to inspect, test, maintain, and repair the Corporal Doppler system.

Instruction: Lectures and practical exercises in Corporal Doppler system component analysis, block diagrams, test equipment operation, supply forms and publications, transmitter and receiving systems, audio frequency coder and control indicator, troubleshooting, and maintenance check sheets and operating procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics (4/74).

AR-1715-0188

Tandem Switch Repair

Course Number: 622-F14.

Location: Signal School, Ft. Monmouth, NJ.

Length: 18 weeks (641 hours).

Exhibit Dates: 2/69–Present.

Objectives: To train dial central office repairmen to repair tandem switches and associated equipment.

Instruction: Lectures and practical exercises in the repair of tandem switches and associated equipment, including circuit analysis, block diagrams, purposes, troubleshooting and testing of relay and trunk finder, register sender, translator, selector, trunk, transmission, switchboard, interface, and power equipment; system concepts and limitations; and preventive maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electricity or electronics laboratory (4/74).

Related Occupation Codes: 36H.

AR-1715-0189

General Intercept Equipment Repair

Course Number: 102-33B20; 32-R-286.1.

Location: Security Agency School, Ft. Devens, MA.

Length: 22 weeks (711 hours).

Exhibit Dates: 6/63–12/69.

Objectives: To train enlisted personnel to test, maintain, and repair intercept and associated equipment.

Instruction: Lectures and practical exercises in the maintenance and repair of intercept and associated equipment, including basic mathematics, DC and AC electronic circuits, solid-state devices, transmitters and wave propagation, basic radio circuits, receiver and converter equipment, specific recording and reproducing equipment, signal and cryptographic security, and installation and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 10 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0190

1. Corporal Radar Repair
2. SSM Radar System Repair

Course Number: *Version 1:* 9-R-243.1. *Version 2:* 9-E-60.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 18 weeks (670 hours). *Version 2:* 15 weeks (550 hours).

Exhibit Dates: *Version 1:* 5/57–12/68. *Version 2:* 12/55–4/57.

Objectives: To train qualified electronic repair helpers to maintain and repair the Corporal radar system and associated test equipment.

Instruction: *All Versions:* Lectures and practical exercises in Corporal radar equipment and associated test equipment maintenance and repair, including missile system history, safety procedures, tactics and logistics, radar test equipment operation and maintenance, block diagrams, communications circuits, radar systems analysis, and supply terms and publications. *Version 1:* Instruction includes basic technical mathematics and circuit analysis. *Version 2:* Instruction is geared to specific equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electronics, 2 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 1 in electrical laboratory (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 3 semester hours in electronics, 1 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 1 in electrical laboratory (4/74); in the upper-division baccalaureate category, 3 semester hours as an elective in electronics (4/74).

AR-1715-0192

Signal Company Officer

Course Number: 11-A-C2; 11-O-1.
Location: Signal School, Ft. Monmouth, NJ.
Length: 27 weeks (969–1134 hours).
Exhibit Dates: 9/53–12/68.
Objectives: To train commissioned officers to be Signal Corps officers.
Instruction. Lectures and practical exercises in map and aerial photograph reading, weapons, command and staff procedures, modern warfare, tactics and techniques of ground forces, wire and radio communications equipment and systems, communications center operations, signal supply and maintenance, and organization and employment of signal communications.
Credit Recommendation: In the vocational certificate category, 6 semester hours in radio communications and electricity (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in radio communications and electricity (4/74); in the upper-division baccalaureate category, 6 semester hours in radio communications and electricity (12/68).

AR-1715-0193

Infantry Communications Officer

Course Number: 7-B-0200.
Location: Infantry School, Ft. Benning, GA.
Length: 11 weeks (423 hours).
Exhibit Dates: 3/57–12/68.
Objectives: To train officers and warrant officers to install, operate, and maintain infantry communications systems.
Instruction: Lectures and practical exercises in the installation, operation, and maintenance of infantry communications systems, including general communications subjects, message center operation and cryptography, radio operation, radio sets and associated equipment, wire communications, tactical application of communications, map and aerial photograph reading, atomic weapons effects and characteristics, and tactical subjects.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electricity and radio operation and maintenance on the basis of institutional evaluation (12/68).
Related Occupation Codes: 290A; 341A; 721A; 286A; 281A; 282A; 252A.

AR-1715-0194

Medical Equipment Maintenance (Supplementary and Refresher)

Course Number: 4B-F3; 198-F1.
Location: Fitzsimons General Hospital, Denver, CO.
Length: 6 weeks (210 hours).
Exhibit Dates: 4/65–Present.
Objectives: To train qualified medical equipment repair technicians to install, inspect, maintain, and repair complex electronic medical equpment.
Instruction: Lectures and practical exercises in the installation, inspection, maintenance, and repair of complex electronic medical equipment, including review of electronics, use of electronic test equipment, special circuits, records, and electronics subjects applicable to medical equipment repair.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity, 1 in electrical laboratory (4/74).
Related Occupation Codes: 35G; 011A; 911A; 202A.

AR-1715-0195

1. Secure Voice Access System Repair
2. Secure Voice Access Console Repair

Course Number: 622-F15.
Location: Signal School, Ft. Monmouth, NJ; Signal School, Ft. Gordon, GA.
Length: *Version 1:* 19 weeks (684–722 hours). *Version 2:* 9 weeks (328 hours).
Exhibit Dates: *Version 1:* 10/70–Present. *Version 2:* 10/68–9/70.
Objectives: To train dial central office repairmen to maintain the automatic dial central office and the secure voice access console (SEVAC).
Instruction: Lectures and practical exercises in automatic dial control office equipment operation, logic gating and correlation, logic functions, binary counters, register, simulator, controllers, maintenance panel operation, and troubleshooting procedures; and secure voice access console (SEVAC) basic circuits and logic functions, power distribution, maintenance, alignment, and troubleshooting procedures.
Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74). *Version 2:* In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (3/74).
Related Occupation Codes: 36H.

AR-1715-0196

Circuit Conditioning

Course Number: 101-F10.
Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.
Length: 5–7 weeks (167–260 hours).
Exhibit Dates: 8/68–Present.
Objectives: To train microwave system, fixed-plant carrier, fixed-ciphony, or dial central office repairmen to maintain signal-conditioning equipment.
Instruction: Lectures and practical exercises in signal-conditioning equipment maintenance, including circuit conditioning and testing; types of circuit-conditioning test equipment; envelope delay distortion principles and equalizers; communications systems interfacing; and troubleshooting, repair, and preventive maintenance procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in electrical laboratory (4/74).
Related Occupation Codes: 26L; 26V; 32E; 32F; 36H.

AR-1715-0197

Communications Central AN/TSC-38B Repair

Course Number: 101-F11.
Location: Signal School, Ft. Monmouth, NJ; Signal School, Ft. Gordon, GA.
Length: 12–15 weeks (450–548 hours).
Exhibit Dates: 6/70–Present.
Objectives: To train receiver, transmitter, or carrier equipment repairmen to operate and maintain the AN/TSC-38B communication central.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/TSC-38B communication central, including monitoring and test facilities; power, VFTG, and audio subsystem analysis and troubleshooting procedures; radio equipment subsystem components; and exciter, radio receiver, primary and secondary transmitter, and antenna systems operation, alignment, and troubleshooting.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics (4/74).
Related Occupation Codes: 32B; 32C; 32E; 32Z.

AR-1715-0198

Improved Hawk Fire Control Repairer
(Improved Hawk Fire Control Repair)

Course Number: *Version 1:* 104-24H10; 104-24H1T. *Version 2:* 104-24H20. *Version 3:* 104-24H20. *Version 4:* 104-24H20.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: *Version 1:* 38–45 weeks (1324–1548 hours). *Version 2:* 38–44 weeks (1259–1468 hours). *Version 3:* 42–46 weeks (1470–1612 hours). *Version 4:* 46 weeks (1634 hours).
Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 1/77–2/78. *Version 3:* 4/74–12/76. *Version 4:* 1/72–3/74.
Objectives: To train enlisted personnel to maintain the improved Hawk battery control central, information and coordination central, and target engagement simulator of the Hawk fire control system.
Instruction: *Version 1:* Conferences, lectures and laboratory exercises include a simplified coverage of RC and LC transients and sine-wave oscillators; soldering techniques and practices; elementary theory of semiconductor devices and circuits; empirical description of operation of vacuum tube pulse circuits; introduction to computer subsystems, registers, counters, logic operations, memories, I/O, control, and arithmetic units; functional organization and troubleshooting procedures of Hawk fire control systems; and maintenance and repair of fire control systems. Basic electronic training is included in this course. *Version 2:* Conferences, lectures and laboratory exercises include a simplified coverage of RC and LC transients and sine-wave oscillators; soldering techniques and practices; elementary theory of semiconductor devices and cricuits; empirical description of operation of vacuum tube pulse circuits; introduction to computer subsystems, registers, counters, logic operations, memories, I/O, control, and arithmetic units; functional organization and troubleshooting procedures of Hawk fire control systems; and maintenance and repair of fire control systems. Note: Students who have completed Modules 1, 2, 3, and 4 of Basic Common Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (37–38 weeks) of this course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (43–44 weeks) of this course. *Version 3:* Lectures and laboratory exercises include a simplified coverage of RC and LC transients and sine-wave oscillators; soldering techniques and practices; elementary theory of semiconductor devices and circuits; empirical description of operation of vacuum tube pulse circuits; in-

troduction to computer subsystems, registers, counters, logic operations, memories, I/O, control, and arithmetic units; functional organization and troubleshooting procedures of Hawk computer fire control systems; and maintenance and repair of fire control systems. Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (42 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (46 weeks) of this course. *Version 4:* Lectures and practical exercises in the maintenance of the improved Hawk battery control central, information and coordination central, and target engagement simulator of the Hawk fire control system, including AC and DC circuits, DC transients, electron tubes and functional circuits, electron tube pulse circuits, introduction to semiconductors, sinewave oscillators, magnetic amplifiers, power supplies, basic transistors, gating, analysis and operation of specific systems equipment, and mathematics and digital computer principles.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in computer circuits, 3 in electronic circuits and systems, 5 in electronic repair techniques (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in computer fundamentals, 2 in solid state devices and circuits OR 1 semester hour in electrical engineering electronics laboratory, 3 in introduction to electrical engineering (8/79). *Version 2:* In the vocational certificate category, 12 semester hours in computer fundamentals, 12 in electronics laboratory for students who complete 37–38 weeks of the course or 12 semester hours in computer fundamentals, 18 in electronic laboratory for students completing 43–44 weeks of the course (see note above) (8/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer fundamentals, 1 in electronics laboratory for all students (8/77). *Version 3:* In the vocational certificate category, 27 semester hours in basic electricity, electronics, and troubleshooting for those students completing 46 weeks; or 24 semester hours in basic electronics and troubleshooting for those students completing 42 weeks (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic computer subsystems and 1 in electricity or electronics for those students completing 46 weeks; or 3 semester hours in computer subsystems for those students completing 42 weeks (see note above) (3/75). *Version 4:* In the vocational certificate category, 4 semester hours in electronics, 3 in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 1 in electronics laboratory, and 3 as an elective in electronics (4/74); in the upper-division baccalaureate category, 3 semester hours in electronics, 1 in electronics laboratory (4/74).

Related Occupation Codes: 24H.

AR-1715-0199

1. Ground Control Radar Repair
2. Ground Control Radar Repair
3. Ground Control Radar Repair
4. Ground Control Radar Repair (Ground Control Approach Equipment Repair)

Course Number: *Version 1:* 104-26D10. *Version 2:* 104-26D20. *Version 3:* 104-26D30; 11-R-282;2 104-26D20; 11-E-59. *Version 4:* 104-26D20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Gordon, GA. *Version 3 :* Signal School, Ft. Gordon, GA. *Version 4 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 32 weeks (1200 hours). *Version 2:* 23–33 weeks (849–1224 hours). *Version 3:* 27–33 weeks (999–1222 hours). *Version 4:* 20–33 weeks (736–1174 hours).

Exhibit Dates: *Version 1:* 11/79–Present. *Version 2:* 12/76–10/79. *Version 3:* 3/75–11/76. *Version 4:* 11/56–2/75.

Objectives: To train enlisted personnel to maintain ground control approach radars and associated IFF equipment.

Instruction: *Version 2:* Phase I (10 weeks) includes lectures and practical experience in troubleshooting pulse generators, power supplies, audio amplifiers, and audio generators. Phase II (23 weeks) includes lectures and practical experience in installation and maintenance of radar sets; nonsinusoidal circuitry; radar beacon systems; basic receivers, microwave transmitters, receivers, and modulators. Note (1): Students who have completed Modules 1 through 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (23 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (33 weeks) of this course. *Version 3:* Phase I (6 weeks) includes lectures and practical experience in troubleshooting pulse generators, power supplies, audio amplifiers, and audio generators. Phase II (27 weeks) includes lectures and practical experience in installation and maintenance of radar sets; nonsinusoidal circuitry; radar beacon systems; basic receivers, microwave transmitters, receivers, and modulators. Note (2): Students who have completed Modules 1, 2, 3, and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (27 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (33 weeks) of this course. *Version 4:* Lectures and practical experience in electrical fundamentals; applied electronics; transmitter circuitry; semiconductor fundamentals; nonsinusoidal circuitry; timer-indicator components; microwave transmitters, receivers, and modulators; transmitter-receiver performance measurements; interrogator and radar set operation; and air traffic control radar beacon systems operation and field exercises.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in basic electronics and troubleshooting for students who have completed 33 weeks of the course (see note (1) above) (4/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in microwave systems for students who have completed either 23 or 33 weeks of the course (see note (1) above) (4/77). *Version 3:* In the vocational certificate category, 6 semester hours in microwave electronics for students completing 27 weeks of the course or 6 semester hours in microwave electronics and 4 in electronics and troubleshooting for students completing 33 weeks of the course (see note (2) above) (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in microwave electronics for students completing 27 weeks of the course or 3 semester hours in microwave electronics and 2 in electronics and troubleshooting for students completing 33 weeks (see note (2) above) (6/75). *Version 4:* In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 09B; 26D; 26W.

AR-1715-0201

Corporal Handling Equipment Maintenance

Course Number: 6-H-F8.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 4 weeks (140–168 hours).

Exhibit Dates: 10/57–12/68.

Objectives: To train officers and enlisted personnel to operate and maintain Corporal missile handling equipment.

Instruction: Lectures and practical exercises in basic electricity, including AC and DC motors, transformers, magnetism, and rectifiers; maintenance and troubleshooting of Erector M2 and its components; and operation and maintenance of Corporal servicing equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74).

AR-1715-0202

Teletypewriter Set AN/FGC-140 Maintenance

Course Number: 160-F19.

Location: Signal School, Ft. Gordon, GA.

Length: 4 weeks (150 hours).

Exhibit Dates: 1/74–Present.

Objectives: To provide students with the knowledge to perform general support maintenance on a specific teletype set.

Instruction: Instruction in the general operation and repair of the AN/FGC-140 teletypewriter, including installation and replacement of subsystems, with minor emphasis on troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 1 semester hour in general maintenance procedures (4/77).

AR-1715-0203

1. Airborne Surveillance Radar Repair
2. Airborne Surveillance Radar Repair
3. Airborne Radar Repair (AN/APS-94)

Course Number: 104-26M20.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ. *Version 3:* Signal School (Phase I)/Combat Surveillance School (Phase II), Ft. Monmouth, NJ (Phase I)/Ft. Huachuca, AZ (Phase II).

Length: *Version 1:* 21 weeks (676 hours). *Version 2:* 30 weeks (1051–1055 hours). *Version 3:* 34 weeks (1263 hours).

Exhibit Dates: *Version 1:* 6/74–Present. *Version 2:* 9/69–5/74. *Version 3:* 12/66–8/69.

Objectives: To train enlisted personnel to inspect, test, and maintain airborne radar systems.

Instruction: *All Versions:* Lectures and laboratories in basic electricity; basic electronics; special circuitry, including nonlinear wave shaping; airborne surveillance radar; radar transmitting sets; radar data receiving sets; and data transfer system alignment. *Version 1:* Instruction emphasizes troubleshooting and maintenance of power supplies, signal comparators, signal monitors, transmitters, receivers, encoders and decoders for a specialized radar system.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electrical laboratory (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/75). *Version 2:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (4/74); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (12/68). *Version 3:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (4/74); in the upper-division baccalaureate category, 6 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 26M.

AR-1715-0204

NUCLEAR WEAPONS MAINTENANCE

Course Number: 644-55G10; 644-55G20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 9–12 weeks (299–406 hours).

Exhibit Dates: 6/72–Present.

Objectives: To train enlisted personnel to assemble, disassemble, maintain, test, and inspect nuclear weapons and to cope with nuclear emergency situations.

Instruction: Lectures and practical exercises in the assembly, disassembly, maintenance, testing, and repair of nuclear weapons and techniques of coping with nuclear emergency situations, including nuclear fundamentals, principles and components of nuclear weapons, electrical systems, electrical test equipment, care and handling of nuclear weapons, common shop operations, various examining procedures, emergency team operations, effects of nuclear weapons, and emergency destruction.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 55G; 09B.

AR-1715-0205

CH-54 AUTOMATIC FLIGHT CONTROL EQUIPMENT REPAIR

Course Number: 102-F5.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 3 weeks (106 hours).

Exhibit Dates: 12/67–Present.

Objectives: To train avionic flight control equipment repairmen to perform direct and general support maintenance on CH-54 automatic flight control equipment.

Instruction: Lectures and practical exercises in automatic flight control familiarization, block-diagram analysis, power distribution and time sequencing, servo loop analysis, pitch channel circuit analysis, roll channel analysis, and altitude and yaw channel analysis; supervisory panel familiarization and block-diagram analysis; and troubleshooting and maintenance procedures.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 35N; 35P.

AR-1715-0206

DEFENSE AGAINST SOUND EQUIPMENT

Course Number: 3C-F1; 244-F1.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ; Intelligence School, Ft. Holabird, MD; Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Intelligence School, Ft. Holabird, MD; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 19 weeks (691 hours). *Version 2:* 17 weeks (605 hours).

Exhibit Dates: *Version 1:* 12/67–Present. *Version 2:* 6/67–11/67.

Objectives: To provide intelligence specialists with advanced training in specialized electronic equipment and the techniques used in the detection and location of listening devices, and to provide them with training in basic electricity, electronics, solid-state devices, and transistor circuits.

Instruction: *All Versions:* Lectures and practical exercises in AC and DC circuits, resistor combinations, transformer and coupled circuits, power supplies, regulators, series and parallel resonance, RC/RL circuits, and use of oscilloscopes, multimeters, spectrum analyzers, and signal generators. *Version 1:* Includes transistor amplifiers, transmitters, modulators, and receivers; AM and FM detectors and oscillator circuits; transmission lines; and microwave and wave-guide techniques. *Version 2:* Includes use and application of miniature transmitters and miniature receivers signal analysis techniques.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics for non-electrical-engineering majors, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0208

DIGITAL CONVERTING PROGRAMMING GROUP MAINTENANCE (AN/TCA-4)
(Digital Converting Programming Group (AN/TCA-4))

Course Number: 102-F9.

Location: Security Agency School, Ft. Devens, MA.

Length: 8 weeks (149–288 hours).

Exhibit Dates: 8/69–Present.

Objectives: To train intercept system repairmen to maintain and repair the AN/TCA-4 digital converting programming group.

Instruction: Lectures and practical exercises in the maintenance and repair of the AN/TCA-4 digital converting programming group, including basic signal analysis, system operation, circuit cards, synchronizer, demultiplexing logic, translating logic, power supplies, programming, and troubleshooting and testing procedures.

Credit Recommendation: Credit is not recommended because of the military nature of the course (9/77).

Related Occupation Codes: 33F; 33Z.

AR-1715-0209

1. NIKE ACQUISITION RADAR AND COMPUTER REPAIR
2. NIKE ACQUISITION RADAR AND COMPUTER REPAIR
   (Nike Acquisition Radar and Computer Systems Repair)
   (SAM Acquisition Radar and Computer Systems Repair)

Course Number: *All Versions:* 9-S-252.1. *Version 2:* 9-R-252;1 9-E-63.

Location: Ordnance Guided Missile school, Redstone Arsenal, AL.

Length: *Version 1:* 34 weeks (1257 hours). *Version 2:* 17–24 weeks (613–924 hours).

Exhibit Dates: *Version 1:* 2/63–12/68. *Version 2:* 12/55–1/63.

Objectives: To train enlisted personnel to operate and maintain missile acquisition radar and computer systems.

Instruction: *All Versions:* Lectures and practical exercises in the description, operation, organization, maintenance, and repair of Nike missile acquisition radar and computer systems. *Version 1:* Instruction includes electrical and electronic fundamentals and basic circuit analysis and troubleshooting techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electricity or electronics, 6 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 6 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0210

IMPROVED NIKE HERCULES HIGH POWER ACQUISITION RADAR MAINTENANCE

Course Number: 4B-F14; 121-F14.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 7 weeks (282 hours). *Version 2:* 5 weeks (186–188 hours).

Exhibit Dates: *Version 1:* 2/70–Present. *Version 2:* 10/65–1/70.

Objectives: To train warrant officers, commissioned officers, and enlisted personnel to operate and maintain the improved Nike Hercules acquisition radar.

Instruction: Lectures and practical exercises in improved Nike Hercules high-power acquisition radar system operation and maintenance, including acquisition, transmitting, stagger, receiving, and MTI systems organization, description, capabilities, characteristics, block-diagram analysis, and safety precautions.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 3 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 24Q; 24P; 222B; 251B.

AR-1715-0211

1. Hawk Fire Control Maintenance
2. Hawk Fire Control Maintenance (Hawk Pulse Acquisition Radar and Battery Control Central Maintenance)
3. Hawk Pulse Acquisition Radar and Battery Control Central Maintenance
4. Hawk Pulse Acquisition Radar and Battery Control Center Maintenance

Course Number: *Version 1:* 121-24F20. *Version 2:* 121-24F20; 121-23P20; 121-228;1 44-R-228.1. *Version 3:* 44-R-228.1. *Version 4:* 44-R-228;1 44-N-F15.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 18 weeks (657–671 hours). *Version 2:* 34–35 weeks (1114–1218 hours). *Version 3:* 29 weeks (987 hours). *Version 4:* 32–33 weeks (1141–1251 hours).

Exhibit Dates: *Version 1:* 10/70–Present. *Version 2:* 3/62–9/70. *Version 3:* 6/60–2/62. *Version 4:* 7/58–5/60.

Objectives: To train enlisted personnel to install, test, adjust, and maintain Hawk missile system pulse acquisition radar and battery control central systems.

Instruction: Lectures and practical exercises in basic electricity and electronics, Hawk pulse acquisition radar systems and missile battery fire control systems theory of operation, fault diagnosis and repair using standard and special test equipment, block-diagram analysis and signal tracing, and maintenance and adjustment procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electronics (6/75); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (6/75); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (6/75). *Version 2:* In the vocational certificate category, 3 semester hours in electricity or electronics and 2 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68) and 2 in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 2 semester hours in electricity or electronics and 2 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68) and 2 in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 4:* In the vocational certificate category, 2 semester hours in electricity or electronics and 2 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68) and 2 in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 24F.

AR-1715-0212

Airborne Sensor Specialist Skill Development Base

Course Number: 221-17L20-I.

Location: Combat Surveillance School, Ft. Huachuca, AZ.

Length: 16 weeks (570 hours).

Exhibit Dates: 7/69–Present.

Objectives: To train airborne sensor specialists to perform or supervise the maintenance of airborne sensor systems.

Instruction: Lectures and practical exercises in the operation and maintenance of airborne sensor systems, including Doppler navigation, airborne photographic surveillance, radar reconnaissance, infrared surveillance systems.

Credit Recommendation: No credit because of the military nature of the course (4/74).

Related Occupation Codes: 17L.

AR-1715-0213

1. M33 Fire Control System Maintenance
2. M33, SCR-584 Fire Control System Maintenance (Artillery Fire Control System Maintenance, M33)

Course Number: *Version 1:* 44-N-213.3. *Version 2:* 44-OE-28.

Location: *All Versions:* Air Defense School, Ft. Bliss, TX. *Version 2:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 27 weeks (1058 hours). *Version 2:* 34–39 weeks (1292–1476 hours).

Exhibit Dates: *Version 1:* 8/58–12/68. *Version 2:* 2/55–7/58.

Objectives: To train warrant officers and enlisted personnel to employ, adjust, and maintain the M33 antiaircraft fire control system and associated equipment.

Instruction: *All Versions:* Lectures and practical exercises in M33 antiaircraft fire control system employment, adjustment, and maintenance, including vacuum tube fundamentals; Ohm's law applied to AC and DC circuits; AC and DC motors construction and operation; load-line analysis; RC coupled, cathode follower, RF, and power amplifiers operation; oscillators; superheterodyne receiver operation and alignment; wave-shaping circuits, klystrons, magnetrons, and transmission lines and high-frequency measurement techniques; and adjustment, maintenance, and repair procedures. *Version 2:* Instruction includes mathematics review through right triangles and vectors, with emphasis on the operation, troubleshooting, maintenance, and repair of equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics for non-engineering majors (4/74). *Version 2:* In the vocational certificate category, 10 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics for non-engineering majors (4/74).

AR-1715-0214

1. AAA Integrated Fire Control Maintenance
2. AAA Integrated Fire Control Maintenance Officer

Course Number: *Version 1:* 44-B-1120; 44-B-1121. *Version 2:* 44-O-7.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 30 weeks (1165 hours). *Version 2:* 31–34 weeks (1198–1295 hours).

Exhibit Dates: *Version 1:* 6/58–12/68. *Version 2:* 7/55–5/58.

Objectives: To train officers and warrant officers in the function, technical operation, characteristics, employment, maintenance, and inspection of antiaircraft fire control systems.

Instruction: *All Versions:* Lectures and practical exercises in basic AC and DC circuits, RL/RCL circuits and transformers, waveforms, and series/parallel elements; utilization of amplifiers, vacuum tubes, inverters, Colpitts/Hartley oscillators, oscilloscopes, multimeters, and signal generators; and troubleshooting, inspection, and repair procedures for radars and computers. *Version 2:* Emphasizes radar electronics, including bootstrap circuits, magnetrons, transmission lines, field concepts, and AC/DC motor drive characteristics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity and electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics for non-electrical-engineering majors, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics for non-electrical-engineering majors, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0215

1. M-38 Fire Control System Maintenance
2. M-38 Fire Control System Maintenance (Artillery Fire Control System Maintenance, T-38)

Course Number: *Version 1:* 44-N-214.4. *Version 2:* 44-OE-29.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX; Antiaircraft and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 24 weeks (922 hours). *Version 2:* 30–31 weeks (1126–1238 hours).

Exhibit Dates: *Version 1:* 6/58–12/68. *Version 2:* 2/55–5/58.

Objectives: To train warrant officer and enlisted personnel to operate, adjust, and maintain the M-38 artillery fire control system and associated radar equipment.

Instruction: *All Versions:* Lectures and practical exercises in AC and DC circuits; motor and generator operation; circuits, including phase shift networks, superheterodyne receivers, oscillators, squaring circuits, H.V. power supplies, and strobing and timing circuits; use of oscilloscopes, signal generators, multimeters, and audio oscillators; and system troubleshooting and repair. *Version 2:* Instruction includes mathematics review. *Version 3:* Instruction includes mathematics review.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics for non-engineering majors, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 7 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics for non-engineering majors, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0216

1. NIKE AJAX FIRE CONTROL SYSTEM MAINTENANCE
2. SAM FIRE CONTROL SYSTEM MAINTENANCE, NIKE AJAX

Course Number: *All Versions:* 44-N-227.2; 44-N-1178. *Version 1:* 44-N-1178A; 44-N-224.1.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 37-38 weeks (1436-1477 hours). *Version 2:* 42 weeks (1632 hours).

Exhibit Dates: *Version 1:* 6/58-12/68. *Version 2:* 6/57-5/58.

Objectives: To train enlisted personnel to operate and maintain the Nike Ajax fire control system and associated IFF equipment.

Instruction: *All Versions:* Lectures and practical experience in radio principles; AC and DC circuits; vacuum tubes; amplifiers, oscillators, and CWANDAM transmitters; DC power supplies, regulators, and distribution; radar circuits, including detectors, receivers, nonsinusoidal generators, and shock-excited oscillators; IFF system introduction; acquisition and target-track radar functional operation; Nike Ajax computer functions; and system check-out and adjustment procedures. *Version 2:* Instruction includes review of algebra fundamentals and right-triangle solutions.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68). *Version 2:* In the vocational certificate category, 4 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68).

Related Occupation Codes: 222B; 251B.

AR-1715-0217

1. SKYSWEEPER GUN SECTION FIRE CONTROL MAINTENANCE
   (T38 Gun Section Fire Control Maintenance)
2. GUN SECTION FIRE CONTROL MAINTENANCE, T38

Course Number: *Version 1:* 44-R-214-3. *All Versions:* 44-E-36.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX; Antiaircraft and Guided Missile School, Ft. Bliss, TX. *Version 2:* Antiaircraft and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 15 weeks (568-572 hours). *Version 2:* 18 weeks (720 hours).

Exhibit Dates: *Version 1:* 4/56-12/68. *Version 2:* 2/55-3/56.

Objectives: To train enlisted personnel to operate, employ, adjust, and troubleshoot artillery fire control systems.

Instruction: *Version 1:* Lectures and practical exercises in system operation (block-diagram level), including receivers, range servos, reference generators, computer, power controls, and field adjustment techniques. *Version 2:* Lectures and practical exercises in basic AC and DC circuits, vacuum tube characteristics, operation of synchroscopes, and voltmeters; explanation of system components; and troubleshooting procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 1 semester hour in electronics and electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0218

FIELD ARTILLERY DATA COMPUTER (FADAC) MAINTENANCE

Course Number: 6-D-F29.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 2 weeks (80 hours).

Exhibit Dates: 7/63-12/68.

Objectives: To train communications officers and enlisted personnel qualified as artillery communications specialists to maintain the field artillery data computer and ancillary equipment.

Instruction: Lectures and practical exercises in the maintenance of field artillery data computers and ancillary equipment, including computer operation, number systems, programming and memory, component replacement, power control circuits, signal data reproducer, logic test set, and troubleshooting of equipment.

Credit Recommendation: In the vocational certificate category, credit in electronics, digital logic, or computer science on the basis of institutional evaluation (4/74).

AR-1715-0219

1. TACTICAL SATELLILE MICROWAVE SYSTEM OPERATOR
2. TACTICAL MICROWAVE SYSTEMS OPERATION AND MAINTENANCE
3. TACTICAL MICROWAVE SYSTEMS OPERATION AND MAINTENANCE
4. TACTICAL MICROWAVE SYSTEMS OPERATION AND MAINTENANCE
5. BASIC MICROWAVE RADIO EQUIPMENT REPAIR
6. BASIC MICROWAVE RADIO EQUIPMENT REPAIR

Course Number: *Version 1:* 201-26Q10. *Version 2:* 101-26L10. *Version 3:* 101-26L10. *Version 4:* 101-26L10. *Version 5:* 101-281.0. *Version 6:* 11-R-281.0.

Location: *Version 1:* Signal School, Ft. Gordon, GA.. *Version 2 :* Signal School, Ft. Gordon, GA. *Version 3 :* Signal School, Ft. Gordon, GA. *Version 4 :* Signal School, Ft. Monmouth, NJ; Signal School, Ft. Monmouth, NJ. *Version 6 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 15 weeks (542 hours). *Version 2:* 11-15 weeks (395-542 hours); 11-15 weeks (395-542 hours); 11-15 weeks (392-539 hours). *Version 4:* 15 weeks (526-554 hours). *Version 5:* 19 weeks (706 hours). *Version 6:* 15 weeks (548 hours).

Exhibit Dates: *Version 1:* 9/78-Present. *Version 2:* 1/77-8/78. *Version 3:* 11/74-12/76. *Version 4:* 9/68-10/74. *Version 5:* 2/66-8/68. *Version 6:* 3/63-1/66.

Objectives: To train enlisted personnel to operate, adjust, install, and repair microwave radio equipment.

Instruction: *All Versions:* Lectures and practical exercises in electrical and electronics fundamentals; circuit applications in radio, especially microwave; servicing procedures of radio sets and use of associated test equipment. *Version 1:* COBET equivalent is included in this version of the course. *Version 2:* Note (1): Students who have completed Modules 201, 202, and 203 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (11 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (15 weeks) of this course. *Version 3:* Note (2): Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (11 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (15 weeks) of this course. *Version 5:* Includes a much more thorough coverage of electrical and electronic fundamentals, with added sections in complex wave circuitry and solid-state devices.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in troubleshooting techniques (8/79); in the lower-division baccalaureate/associate degree category, 5 semester hours in basic electronies communications(8/79). *Version 2:* In the vocational certificate category, 2 semester hours in basic electronics for students who complete 11 weeks of the course or 5 semester hours in basic electronics and troubleshooting for students who complete 15 weeks of the course (see note (1) above) (4/77). *Version 3:* In the vocational certificate category, 3 semester hours in basic electricity and electronics and 2 in electronics laboratory for those students completing 15 weeks; or 2 semester hours in electronics laboratory for those students completing 11 weeks (see note (2) above) (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics for those students completing 15 weeks; no credit for those students completing 11 weeks (see note (2) above) (5/75). *Version 4:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics (4/74). *Version 5:* In the vocational certificate category, 16 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics (4/74). *Version 6:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics (4/74).

Related Occupation Codes: 09B; 26L; 26Q.

AR-1715-0220

Basic Radar Repair

Course Number: 11-R-282.0.

Location: Signal School, Ft. Monmouth, NJ.

Length: 19 weeks (698 hours).

Exhibit Dates: 9/63–12/68.

Objectives: To train enlisted personnel to operate and maintain radar equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of radar equipment, including detailed circuit analysis of DC and AC circuits, transformers, semiconductors, vacuum tubes, electronic circuits, radio circuits, power supplies, radar circuits, nonsinusoidal circuits, special circuits, radar systems and specific radar sets; and troubleshooting and repair procedures.

Credit Recommendation: In the vocational certificate category, 16 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and additional credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0221

1. Overseas Automatic Switching Center (ASC) Technical Controller
2. Automatic Digital Message Switching Center (ADMSC) Technical Controller
3. Automatic Digital Message Switching Center (ADMSC) Technical Controller
4. Automatic Digital Message Switching Center (ADMSC) Technical Controller

Course Number: 622-F8.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 5 weeks (167-173 hours). *Version 2:* 6 weeks (222 hours). *Version 3:* 8 weeks (282 hours). *Version 4:* 6 weeks (206 hours).

Exhibit Dates: *Version 1:* 5/73–Present. *Version 2:* 6/71–4/73. *Version 3:* 2/69–5/71. *Version 4:* 4/68–1/69.

Objectives: To train fixed-station technical controllers to test and maintain the continuity and quality of the operational circuits of automatic digital message switching centers.

Instruction: *All Versions:* Lectures and practical exercises in the operation of, and signal tracing through, automatic digital message switching center equipment and technical control equipment, operation of consoles, and use of test equipment. *Version 2:* Extensive use of test equipment. *Version 3:* Extensive use of test equipment. *Version 4:* Extensive use of test equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, credit in electronics or instrumentation on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics or instrumentation on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 2 semester hours in electronics or instrumentation (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics or instrumentation on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 2 semester hours in electronics or instrumentation (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics or instrumentation on the basis of institutional evaluation (4/74). *Version 4:* In the vocational certificate category, 2 semester hours in electronics or instrumentation (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics or instrumentation on the basis of institutional evaluation (4/74).

Related Occupation Codes: 32D.

AR-1715-0222

Improved Hawk Pulse Acquisition Radar Repairer

(Improved Hawk Pulse Acquisition Radar Repair)

(Improved Hawk Pulse Radar Repair)

Course Number: *Version 1:* 104-24JIT. *Version 2:* 104-24J10. *Version 3:* 104-24J20. *Version 4:* 104-24J20. *Version 5:* 104-24J20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 38 weeks (1314-1315 hours). *Version 2:* 34 weeks (1157 hours). *Version 3:* 29–35 weeks (983–1196 hours). *Version 4:* 33–37 weeks (1115–1257 hours). *Version 5:* 41 weeks (1446 hours).

Exhibit Dates: *Version 1:* 10/79–Present. *Version 2:* 3/78–9/79. *Version 3:* 2/77–2/79. *Version 4:* 5/74–1/77. *Version 5:* 4/72–4/74.

Objectives: To train enlisted personnel to inspect, test, repair, and maintain Hawk pulse radar systems, ground equipment test sets, and support maintenance equipment.

Instruction: *All Versions:* Lectures and practical exercises in fundamentals of AC and DC circuits, transistors, vacuum tubes, electronic circuits, power supplies, and communications circuits and systems; and detailed theory *Version 2:* Instruction includes soldering techniques and basic electronics. COBET is not required as a prerequisite. of operation of acquisition radar, range radar, and associated test equipment. *Version 3:* Note: Students who have completed Modules 1, 2, 3, and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (29 weeks) of this course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (35 weeks) of this course. *Version 4:* Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (33 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (37 weeks) of this course.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 1 semester hour in microwaves 1 in computer circuits and 5 in electronic repair techniques (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in basic electronics, 2 in solid state and 2 in circuits and systems OR, for those students in an electrical engineering program 1 semester hour in electrical engineering electronics laboratory, 3 in introduction to electrical engineering (8/79). *Version 3:* In the vocational certificate category, 18 semester hours in basic electronics for students who complete 29 weeks of this course or 24 semester hours in basic electronics for students who complete 35 weeks of this course (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory for students who complete 35 weeks of the course (see note above) (8/77). *Version 4:* In the vocational certificate category, 25 semester hours in basic electricity, electronics, and troubleshooting for those students completing 37 weeks; or 22 semester hours in basic electronics and troubleshooting for those students completing 33 weeks (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics for those students completing 37 weeks; no credit for those students completing 33 weeks (see note above) (3/75). *Version 5:* In the vocational certificate category, 24 semester hours in electricity and electronics (4/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in electricity and electronics (4/74); in the upper-division baccalaureate category, 6 semester hours in electricity and electronics (4/74).

Related Occupation Codes: 24J.

AR-1715-0223

Improved Hawk Continuous Wave (CW) Radar Repairer

(Improved Hawk Continuous Wave (CW) Radar Repair)

Course Number: *Version 1:* 104-24K10; 104-24K1T. *Version 2:* 104-24K20. *Version 3:* 104-24K20. *Version 4:* 104-24K20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 29-30 weeks (1001-1003 hours). *Version 2:* 30-36 weeks (953-1164 hours). *Version 3:* 34-38 weeks (1174-1316 hours). *Version 4:* 43 weeks (1531 hours).

Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 1/77–2/78. *Version 3:* 3/74–12/76. *Version 4:* 4/72–2/74.

Objectives: To train enlisted personnel to operate and maintain Hawk continuous wave radar systems.

Instruction: *Version 1:* Lectures and practical exercises in fundamentals of DC and AC circuits, transistors, vacuum tubes, electronic circuits, power supplies, communications circuits and systems, and fundamental digital circuits and subsystems, and detailed theory of operation of Hawk launchers, illuminator radar, acquisition radar, and associated test equipment. *Version 2:* Lectures and practical exercises in fundamentals of DC and AC circuits, transistors, vacuum tubes, electronic circuits, power supplies, communications circuits and systems, and digital computer circuits; and detailed theory of operation of Hawk launchers, illuminator radar, acquisition radar, and associated test equipment. Note: Students who have completed Modules 1, 2, 3, and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (30 weeks) of the course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (36 weeks) of the course. Note: Students who have completed Modules *Version 3:* Lectures and practical exercises in fundamentals of DC and AC circuits, transistors, vacuum tubes, electronic circuits, power supplies, communications circuits and systems, and digital computer circuits; and detailed theory of operation of Hawk launchers, illuminator radar, acquisition radar, and associated test equipment. Note: Students who have competed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (34 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (38 weeks) of this course. *Version 4:* Lectures and practical exercises in fundamentals of DC and aAC circuits, transistors, vacuum tubes, electronic circuits, power supplies, communications circuits and systems, and digital computer circuits; and detailed theory of operation of Hawk launchers, illuminator radar, acquisition radar, and associated test equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in microwaves, 1 in computer circuits and 5 in electronic repair techniques (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical engineering fundamentals, 3 in electrical engineering electronics laboratory OR, 3 semester hours in basic electronics, 3 in basic electricity, 2 in solid state circuits and systems, and 2 in circuits & systems (8/79). *Version 2:* In the vocational certificate category, 15 semester hours in basic electronics and 3 in computer fundamentals for students who complete 30 weeks of the course, or 21 semester hours in basic electronics and 3 in computer fundamentals for students completing 36 weeks of the course (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory for students completing 36 weeks of the course (8/77). *Version 3:* In the vocational certificate category, 25 semester hours in basic electricity, electronics, and troubleshooting for those students completing 38 weeks; or 22 semester hours in basic electronics and troubleshooting for those students completing 34 weeks (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics and 1 in basic computer subsystems for those students completing 38 weeks; or 1 semester hour in basic computer subsystems for those students completing 34 weeks (see note above) (3/75). *Version 4:* In the vocational certificate category, 24 semester hours in electricity and electronics (4/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in electricity and electronics (4/74); in the upper-division baccalaureate category, 6 semester hours in electricity and electronics (4/74).

Related Occupation Codes: 24K.

AR-1715-0224

UNATTENDED GROUND SENSOR OPERATION

Course Number: 3A-F22; 221-F2.

Location: Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ; Combat Surveillance School, Ft. Huachuca, AZ.

Length: 3–5 weeks (136–196 hours).

Exhibit Dates: 8/69–Present.

Objectives: To train enlisted personnel and officers to prepare, employ, and operate unattended ground sensors and monitors, to perform organizational maintenance on all sensors and related equipment, and to analyze and react to sensor-provided data.

Instruction: Lectures and practical exercises on unattended ground sensors, operation and maintenance of specific sensor equipment, and sensor employment.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (4/74).

Related Occupation Codes: 11B; 11C; 11D; 11E; 11F; 13E.

AR-1715-0225

1. NUCLEAR WEAPONS ELECTRONICS MAINTENANCE
2. NUCLEAR WEAPONS ELECTRONIC MAINTENANCE
3. NUCLEAR WEAPONS ELECTRONIC MAINTENANCE
4. ARMY NUCLEAR WEAPONS ELECTRONICS SPECIALIST (PHASE I)

Course Number: *Version 1:* 140-35F10. *Version 2:* 140-35F20. *Version 3:* 140-35F20. *Version 4:* 140-35F20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 11–12 weeks (353–400 hours). *Version 2:* 17–21 weeks (588–734 hours). *Version 3:* 20–22 weeks (708–726 hours). *Version 4:* 11 weeks (391 hours).

Exhibit Dates: *Version 1:* 4/76–Present. *Version 2:* 4/74–3/76. *Version 3:* 6/72–3/74. *Version 4:* 9/68–5/72.

Objectives: To train enlisted personnel to maintain electrical and electronic components and test equipment associated with nuclear weapons.

Instruction: *All Versions:* Lectures and practical exercises in basic electronic circuits, vacuum tube circuits, and maintenance techniques for specific devices. There is a discussion of transistors and vintage test equipment. *Version 1:* Lectures and laboratory exercises include simplified coverage of RC and LC transients and sinewave oscillators; elementary semiconductors and multistage amplifiers; three-phase AC; schmitt triggers and control circuits; and troubleshooting and maintenance of test equipment, specialized test equipment, and electronic systems associated with nuclear weapons. NOTE: Students have completed their basic electronics studies in this course, and not in COBET. *Version 2:* Lectures and laboratory exercises include simplified coverage of RC and LC transients and sinewave oscillators; elementary semiconductors and multistage amplifiers; three-phase AC; schmitt triggers and control circuits; and troubleshooting and maintenance of test equipment, specialized test equipment, and electronic systems associated with nuclear weapons. Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (17 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (21 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic electricity, 3 in test equipment repair and calibration (8/79); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic circuits, 2 in basic electronics. Credit is recommended on the basis of of institutional evaluation at the introductory Electrical Engineering level (8/79). *Version 2:* In the vocational certificate category, 9 semester hours in basic electricity, electronics, and troubleshooting for those students completing 21 weeks; or 6 semester hours in basic electronics and troubleshooting for those students completing 17 weeks (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics for those students completing 21 weeks; no credit for those students completing 17 weeks (see note above) (3/75). *Version 3:* In the vocational certificate category, 6 semester hours in electricity and electronics, 2 in electrical and electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics, 1 in electrical and electronics laboratory (4/74); in the upper-division baccalaureate category, 1 semester hour in electrical and electronics laboratory (4/74). *Version 4:* In the vocational certificate category, 6 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (4/74); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics and additional credit in electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 35F.

AR-1715-0226

1. COMMUNICATION/ELECTRONIC STAFF OFFICER
2. COMMUNICATIONS AND ELECTRONICS STAFF OFFICER

(Communications Officer)

Course Number: *All Versions:* 4C-25A. *Version 2:* 4C-0205; 4C-0200; 6-A-0200.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 9 weeks (281 hours). *Version 2:* 10–11 weeks (320–419 hours).

Exhibit Dates: *Version 1:* 12/79–Present. *Version 2:* 5/64–11/79.

Objectives: To train signal officers to supervise and coordinate the installation, operation, and maintenance of communications systems and selected electronic equipment.

Instruction: Lectures and practical exercises in the supervision of the installation, operation, and maintenance of communications systems and selected electronic equipment including instruction in AM and FM radio fundamentals and equipment, applied communications, radiotelephony, automatic data processing equipment, tactics, ground surveillance equipment, and management procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in communications system installation (1/80); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications equipment maintenance management, 1 in communications systems planning and 1 in technical writing (1/80). *Version 2:* In the vocational certificate category, 2 semester hours in communications equipment maintenance (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications equipment maintenance on the basis of institutional evaluation (6/75).

AR-1715-0227

1. Surveillance Infrared Repair
2. Surveillance Infrared Repair
3. Surveillance Infrared Repair
4. Surveillance Infrared Repair
5. Airborne Infrared Repair (UAS-4)

Course Number: *Version 1:* 104-26N20. *Version 2:* 104-26N20. *Version 3:* 104-26N20. *Version 4:* 104-26N20. *Version 5:* 221-26N20.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Huachuca, AZ. *Version 3:* Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ. *Version 4:* Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ; Combat Surveillance School, Ft. Huachuca, AZ. *Version 5:* Combat Surveillance School, Ft. Huachuca, AZ.

Length: *Version 1:* 18 weeks (532–876 hours). *Version 2:* 15 weeks (511 hours). *Version 3:* 24 weeks (853 hours). *Version 4:* 27–28 weeks (942–970 hours). *Version 5:* 24 weeks (862 hours).

Exhibit Dates: *Version 1:* 3/77–9/77. *Version 2:* 6/74–2/77. *Version 3:* 1/73–5/74. *Version 4:* 7/69–12/72. *Version 5:* 3/66–6/69.

Objectives: To train enlisted personnel to repair and maintain airborne infrared systems.

Instruction: *Version 1:* Course includes basic electronic theory and laboratory and emphasizes necessary theory and troubleshooting to train personnel to install, maintain, adjust, determine defective components and replace defective components in infrared surveillance equipment. Systems include optics, radio, servos, digital, cryogenic, and photo equipment. *Version 2:* Instruction emphasizes practical exercise in troubleshooting techniques on various types of infrared equipment. *Version 3:* Lectures and practical exercises in the repair and maintenance of the AN/UAS-4A or the AN/UAS-4 airborne infrared system, including basic DC and AC circuit fundamentals, basic electronics (tubes and transistor circuits), infrared system components, power supply, special circuitry and associated equipment maintenance. *Version 4:* Lectures and practical exercises in the repair and maintenance of the AN/UAS-4A or the AN/UAS-4 airborne infrared system, including basic DC and AC circuit fundamentals, basic electronics (tubes and transistor circuits), infrared system components, power supply, special circuitry and associated equipment maintenance. *Version 5:* Lectures and practical exercises in the repair and maintenance of the AN/UAS-4A or the AN/UAS-4 airborne infrared system, including basic DC and AC circuit fundamentals, basic electronics (tubes and transistor circuits), infrared system components, power supply, special circuitry and associated equipment maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in communication electronics, 2 in instrumentation, 2 in digital, 2 in troubleshooting, 1 in optics, and, for students completing the Basic Electronics Training phase, 3 in introduction to electronics, 1 in technical mathematics, 2 in AC/DC theory, 2 in solid state circuits, 2 in troubleshooting techniques, 2 in digital circuits, and, for National Guard or reserve personnel, 2 in vacuum tubes (6/79); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications electronics, 2 in instrumentation, 2 in troubleshooting, 1 in optics, 2 in digital and, for students completing the Basic Electronics training phase, 3 in introduction to electronics, 1 in technical mathematics, 2 in AC/DC theory, 2 in solid state circuits, 2 in troubleshooting techniques, 2 in digital circuits and, for National Guard or reserve personnel, 2 in vacuum tube circuits (6/79). *Version 2:* In the vocational certificate category, 2 semester hours in troubleshooting techniques (6/75). *Version 3:* In the vocational certificate category, 2 semester hours in basic electricity, 2 in basic electronics, 10 in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity, 2 in basic electronics, 10 in electronic equipment maintenance (4/74); in the upper-division baccalaureate category, 2 semester hours in basic electricity, 2 in basic electronics, 1 in electronics laboratory, all on the basis of institutional evaluation (4/74). *Version 4:* In the vocational certificate category, 2 semester hours in basic electricity, 2 in basic electronics, 12 in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 5:* In the vocational certificate category, 2 semester hours in basic electricity, 2 in basic electronics, 10 in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 26N; 26W.

AR-1715-0228

Integrated Data Link Repair

Course Number: 4B-F7; 150-361.2; 11-N-361.2.

Location: Air Defense School, Ft. Bliss, TX.

Length: 29 weeks (1030 hours).

Exhibit Dates: 5/64–12/68.

Objectives: To train enlisted personnel who have backgrounds in electronics to maintain AN/FSG-1 missile master Sage data link equipment.

Instruction: Lectures and practical exercises in the maintenance of AN/FSG-1 missile master (Sage data-link) equipment, including system circuit analysis and principles of operation of the power subsystem, Sage receiving system, transmission subsystem, designation and broadcast function, battery data-link function, and adjustment and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 10 semester hours in electrical equipment maintenance, 5 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in electrical equipment maintenance, 5 in electrical laboratory, all on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0229

1. Ground Surveillance Radar Repair
2. Combat Area Surveillance Radar Repair

(Ground Surveillance Radar Repair)

Course Number: *All Versions:* 104-26C30. *Version 2:* 11-R-282.1A.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ; Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ. *Version 2:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 27 weeks (800 hours). *Version 2:* 24–29 weeks (896–1080 hours).

Exhibit Dates: *Version 1:* 9/72–Present. *Version 2:* 6/63–8/72.

Objectives: To train enlisted personnel to inspect, test, and repair ground surveillance radar equipment and tracking and plotting radar equipment.

Instruction: Lectures and practical exercises in the inspection, testing, and repair of ground surveillance radar equipment and tracking and plotting radar equipment, including basic electricity and electronics, radar principles, semiconductors, RF energy, nonsinusoidal circuitry, microwave equipment, servo and data circuitry, and equipment components.

Credit Recommendation: *Version 1:* In the vocational certificate category, 10 semester hours in electricity or electronics, 5 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in electricity, 5 in electrical laboratory, all on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 6 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (12/68). *Version 2:* In the vocational certificate category, 10 semester hours in electricity or electronics and 5 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 26C; 26W.

AR-1715-0230

Hawk Fire Control Repair

Course Number: 121-23Q20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 23–27 weeks (779–921 hours). *Version 2:* 28 weeks (932 hours). *Version 3:* 33 weeks (1188 hours).

Exhibit Dates: *Version 1:* 3/74–Present. *Version 2:* 10/72–2/74. *Version 3:* 3/67–10/72.

Objectives: To train enlisted personnel to inspect, test, and repair Hawk battery control central, assault fire command console, platoon command post, and radar signal simulator electronic systems and associated test equipment.

Instruction: *All Versions:* Lectures and practical exercises in inspection, testing, and repair of Hawk battery control central, assault fire command console, platoon command post, and radar signal simulator electronic systems and associated test equipment, including basic electricity and electronics theory, AC and DC circuits, electronic devices, wave-shaping circuits, fire control fault diagnosis, systems operation, and analysis of various circuits and components for specific equipment. *Version 1:* Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (23 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (27 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electricity and electronics and 3 in electronics laboratory for those students completing 23 weeks; or 5 semester hours in electricity and electronics and 3 in electronics laboratory for those students completing 27 weeks (see note above) (5/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics and 3 in electronics laboratory for those students completing 23 weeks; or 5 semester hours in electricity and electronics and 3 in electronics laboratory for those students completing 27 weeks (see note above) (5/75). *Version 2:* In the vocational certificate category, 5 semester hours in electricity or electronics, and 3 in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electricity or electronics, and 3 in electronics laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 5 semester hours in electricity or electronics, 3 in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electronics laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 23Q.

AR-1715-0231

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST

Course Number: 121-27B20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 17–20 weeks (680–800 hours). *Version 2:* 25 weeks (872–875 hours). *Version 3:* 27 weeks (952 hours).

Exhibit Dates: *Version 1:* 11/76–Present. *Version 2:* 5/73–10/76. *Version 3:* 2/69–4/73.

Objectives: To train enlisted personnel to operate, inspect, test, and repair the land combat support system and to isolate faults and verify tests on assemblies, modules, and components of supported missile systems.

Instruction: *All Versions:* Lectures and practical exercises in the operation, inspection, testing, and repair of land combat support systems and fault isolation and test verification of assemblies, modules, and components of supported missile systems, including missile electronics subjects (transistors, vacuum tubes, generators, and logic circuits), block-diagram analysis and circuitry of power supply, data processor and other components; pulse and signal generators, digital multimeter, waveforms, system analyses, optics, and ancillary equipment. *Version 1:* Does not include vacuum tubes. Note: Students who have completed Modules 201, 202, 203, 4 and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (17 weeks) of the course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (20 weeks) of the course. *Version 2:* Includes electricity fundamentals and instruction processing.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in basic electronics for students who complete 17 weeks of the course or 18 semester hours in basic electronics for students who complete 20 weeks of the course (see NOTE above) (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics for all students (8/77). *Version 2:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (4/74); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 8 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 27B; 27Z.

AR-1715-0232

1. FIRE DISTRIBUTION SYSTEMS ELECTRONICS
2. FIRE DISTRIBUTION SYSTEMS ELECTRONICS
3. FIRE DISTRIBUTION SYSTEM MAINTENANCE

Course Number: *Version 1:* 121-F5. *Version 2:* 11-R-F12. *Version 3:* 11-R-F12.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Air Defense School, Ft. Bliss, TX. *Version 3:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 6–9 weeks (222–352 hours). *Version 2:* 9 weeks (320–352 hours). *Version 3:* 18 weeks (660 hours).

Exhibit Dates: *Version 1:* 4/68–Present. *Version 2:* 5/63–3/68. *Version 3:* 5/61–4/63.

Objectives: To train enlisted personnel to maintain test equipment and circuits utilized in air defense fire distribution systems.

Instruction: *All Versions:* Lectures and practical exercises in the maintenance of test equipment and in electrical and electronics fundamentals, including AC and DC circuits, vacuum tubes, power supplies, synchros, servos, transistor theory and circuits, and mathematics review. *Version 1:* Includes fundamentals of counterinsurgency operations and civil affairs. *Version 3:* Includes pulse and indicator circuitry, theory and application of semiconductors, and analog and digital computer circuitry.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in electricity or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics laboratory (4/74). *Version 2:* In the vocational certificate category, 8 semester hours in electricity or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68). *Version 3:* In the vocational certificate category, 8 semester hours in electricity or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68).

Related Occupation Codes: 25D; 25G; 25H; 25J; 25K.

AR-1715-0233

1. NIKE ACQUISITION RADAR AND COMPUTER REPAIR (IMPROVED HERCULES TRANSITION)
2. NIKE ACQUISITION RADAR AND COMPUTER REPAIR (HERCULES TRANSITION)

(Nike Acquisition Radar and Computer Repair (Improved Hercules Transition))

Course Number: *Version 1:* 9-S-252.1(TI). *Version 2:* 9-S-252.1(T).

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 11–13 weeks (402–475 hours). *Version 2:* 5 weeks (214 hours).

Exhibit Dates: *Version 1:* 4/61–12/68. *Version 2:* 10/58–3/61.

Objectives: To train enlisted personnel to inspect, test, and maintain the Nike Hercules acquisition radar and computer system.

Instruction: Lectures and practical exercises in operation and repair procedures for transmitters, receivers, indicators, and test equipment; field power system theory of operation and repair procedures; and special field maintenance equipment theory of operation and repair procedures. This is a highly specialized equipment course with very little mathematics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 3 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0234

CORPORAL ELECTRONIC MATERIEL MAINTENANCE

Course Number: 6-N-1192A; 6-N-214.1; 224.3C.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 28–29 weeks (1042–1172 hours).

Exhibit Dates: 6/58–12/68.

Objectives: To train warrant officer and enlisted personnel to assemble, install, adjust, and maintain on-missile electronic guidance control systems and associated test equipment.

Instruction: Lectures and practical exercises in communications and electronics, algebra, trigonometry, vectors, terms and symbols, multimeters, series and parallel DC circuits, Ohm's law, magnetism, AC voltages and currents, oscilloscopes and audio oscillators; R, L, and C combination impedance in AC series and parallel circuits; time constants and resonant circuits; transformers; AC and DC motors and generators and three-phase power; electronic circuit elements, diodes, tubes, and rectifiers; voltage regulators; amplifiers and modulation methods; superheterodyne receivers; radar theory and components; a-f-c circuits and sweep generators; magnetic amplifiers, synchros and automatic control system elements; integrating and differentiating circuits; Corporal missile electronics; beacons, transponders, decoders, servomotors, signal converters, and check-out procedures.

Credit Recommendation: In the vocational certificate category, 24 semester hours in radio and electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio and electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in elementary circuit theory (4/74).

AR-1715-0235

Electronic Warfare Officer

Course Number: 11-A-0144.

Location: Signal School, Ft. Monmouth, NJ.

Length: 7 weeks (254 hours).

Exhibit Dates: 12/62–12/68.

Objectives: To train commissioned officers with two years of college training or comparable field experience in electronics, communications, physics, electrical engineering, or related activities to plan and supervise electronic warfare combat operations and the location, installation, and employment of electronic countermeasures and counter-countermeasures equipment.

Instruction: Lectures and practical exercises in the planning and supervision of electronic warfare combat operations and the location, installation, and employment of electronic countermeasures and counter-countermeasures equipment, including ground and sky wave propagation, UHF and VHF characteristics, satellite communications and jamming techniques, infrared, electronics fundamentals, oscilloscopes, modulation, transmission lines and antennas, types and functions of radars, active and passive ECM systems, and multipurpose jamming equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (4/74); in the upper-division baccalaureate category, credit in electronics on the basis of institutional evaluation (4/74).

AR-1715-0236

Hawk Continuous Wave (CW) Radar Repair

Course Number: *Version 1:* 104-23T20. *Version 2:* 104-23T20; 9-S-256;1 104-256.1. *Version 3:* 9-S-256.1.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL. *Version 3:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 24–28 weeks (813–955 hours). *Version 2:* 28–34 weeks (948–1245 hours). *Version 3:* 20–24 weeks (722–871 hours).

Exhibit Dates: *Version 1:* 3/74–Present. *Version 2:* 2/63–2/74. *Version 3:* 1/59–1/63.

Objectives: To train enlisted personnel to inspect, test, and repair continuous-wave radar equipment and associated test instruments.

Instruction: *All Versions:* Lectures and practical exercises in continuous-wave radar equipment and associated test instruments inspection, testing, and repair, including system familiarization, troubleshooting and testing specific missile-related hardware items, and equipment and hand tools usage. *Version 1:* Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (24 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (28 weeks) of this course. *Version 2:* Instruction includes elementary mathematics; basic circuit laws; series and parallel DC circuits, batteries, and power supplies; AC circuits, magnetism, Lenz's law, R-L-C combinations with vectorial solutions; transformers and m-g sets; multimeters, oscilloscopes, and VTVMs; series and parallel resonance; transients in R-L and R-C circuits and integrating and differentiating circuits; diodes, filters, triodes, amplifiers, and coupling circuits; sine-wave oscillators, tube testers, and regulated power supplies; heterodyne receivers, r-f amplifiers, and r-f signal sources; mixers, IF stages, AM detectors, and alignment techniques; FM sources, modulation, transmitters, receivers, and discriminators; CRT circuits, pulse circuits, limiters, clampers, sawtooth generators, and multivibrators; semiconductor devices and applications; and CE-CB-CC transistor amplifiers.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in basic electricity or electronics for those students completing 24 weeks; or 12 semester hours in basic electricity, electronics or troubleshooting for those students completing 28 weeks (see note above) (5/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity or electronics for those students completing 24 weeks; or 3 semester hours in basic electricity or electronics for those students completing 28 weeks (see note above) (5/75). *Version 2:* In the vocational certificate category, 12 semester hours in electric circuits or electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electric circuits or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electric circuits or electronics and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 6 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 23T.

AR-1715-0237

1. Operations Central Repair
2. Operations Central Repair
3. Operations Central and Coder-Decoder Group Repair

Course Number: *All Versions:* 150-25J20; 4B-F10. *Version 3:* 150-365;1 11-N-365.1.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 25 weeks (861–873 hours). *Version 2:* 18–19 weeks (659–684 hours). *Version 3:* 20 weeks (683–725 hours).

Exhibit Dates: *Version 1:* 6/72–Present. *Version 2:* 2/69–5/72. *Version 3:* 10/63–1/69.

Objectives: To train enlisted personnel to maintain and repair the AN/TSP-38 operations central coder-decoder.

Instruction: *All Versions:* Lectures and practical exercises in AN/TSQ-3C coder-decoder digital circuits, oscillators, multivibrators, blocking oscillators and circuit analysis, missile monitor subsystem specialized training, and instrumentation required for maintenance. *Version 3:* Emphasis is on hands-on equipment maintenance.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in basic electricity and electronics and digital fundamentals (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital fundamentals and 3 in basic electronics laboratory (2/75); in the upper-division baccalaureate category, 3 semester hours as an elective in computer systems (2/75). *Version 2:* In the vocational certificate category, 6 semester hours in digital circuits (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital circuits (4/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (4/74). *Version 3:* In the vocational certificate category, 4 semester hours in digital circuits (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in digital circuits (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 25J.

AR-1715-0238

Corporal Ground Guidance Repair

Course Number: *Version 1:* 9-S-245.1. *Version 2:* 9-R-F19.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 33 weeks (1251 hours). *Version 2:* 23 weeks (847 hours).

Exhibit Dates: *Version 1:* 2/63–12/68. *Version 2:* 7/59–1/63.

Objectives: To train enlisted personnel to inspect, test, maintain, and repair the Corporal ground guidance system.

Instruction: *All Versions:* Lectures and practical exercises in AC and DC circuit fundamentals, vacuum tubes, transistors, electronic circuits, radio circuits, radar principles and test equipment, portable test equipment operation and repair procedures, power supplies, and guidance system subsystems. *Version 1:* Instruction includes electricity and electronics fundamentals. *Version 2:* Instruction is equipment oriented.

Credit Recommendation: *Version 1:* In the vocational certificate category, 16 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0239

Nike Test Equipment Repair

Course Number: *Version 1:* 121-22L10. *Version 2:* 121-22L10. *Version 3:* 121-22L20. *Version 4:* 104-22L20; 9-S-F48.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 33 weeks (1148 hours). *Version 2:* 32 weeks (1073 hours). *Version 3:* 25–31 weeks (879–1065 hours). *Version 4:* 32–36 weeks (1076–1274 hours).

Exhibit Dates: *Version 1:* 10/79–Present. *Version 2:* 5/78–9/79. *Version 3:* 5/74–4/78. *Version 4:* 8/64–4/74.

Objectives: To train enlisted personnel to operate, inspect, test, repair, and maintain Nike field maintenance test equipment and Nike air defense guided missile system assemblies.

Instruction: *Version 2:* Lectures and practical exercises in the Nike Air Defense guided missile system, basic AC and DC circuits, transients, vacuum tubes, transistors, power supplies, regulators, amplifiers, oscillators, wave-shaping circuits, receiver principles, microwave principles, troubleshooting techniques, and standard electronics and special Nike test equipment usage. *Version 3:* Note: Students who have completed Modules 1, 2, and 3 of Commom Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (25–27 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (31 weeks) of this course.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 5 semester hours in electronics equipment repair techniques (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in transistor theory, 2 in vacuum tube circuits theory, 1 in microwave theory, and 3 in circuit electronics laboratory (8/79). *Version 3:* In the vocational certificate category, 21 semester hours in basic electricity, electronics and troubleshooting for those students completing 31 weeks; 18 semester hours in basic electronics for those students completing 25–27 weeks (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity and electronics for those students completing 31 weeks (see note above) (3/75). *Version 4:* In the vocational certificate category, 18 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 21L.

AR-1715-0240

SUPERVISORY RADAR REPAIR

Course Number: 104-26F40.

Location: Signal School, Ft. Monmouth, NJ.

Length: 25 weeks (932 hours).

Exhibit Dates: 4/66–12/68.

Objectives: To train radar mechanics and ground radar repairmen to supervise nonintegrated radar maintenance personnel.

Instruction: Lectures and practical experience in AC and DC circuit fundamentals, advanced electronic circuitry, microwave equipment operation and measurement procedures, digital computer systems and circuitry, supervisory and instructional techniques, and operation and maintenance procedures for various radars.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics, 3 in microwaves, 3 in computer systems (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, 3 in maintenance management (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, 3 in maintenance management, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0241

GUIDED MISSILE INSTALLATION ELECTRICAL EQUIPMENT REPAIR

Course Number: 5-E-63.

Location: Engineer School, Ft. Belvoir, VA.

Length: 12 weeks (445 hours).

Exhibit Dates: 7/56–12/68.

Objectives: To train enlisted personnel to operate and maintain guided missile electrical equipment and to troubleshoot and repair gasoline and diesel engines, air conditioning equipment, and specialized guided missile hydraulic equipment.

Instruction: Lectures and practical exercises in guided missile electrical equipment operation and maintenance, electrical fundamentals, circuit analysis, including meters, magnetism, AC generators, control circuits, frequency convertors and motors; and troubleshooting, repair, and overhaul of internal-combustion engines, air conditioning units, and hydraulic controls.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electrical laboratory, 3 in internal-combustion engines, 2 in air conditioning, 2 in introduction to hydraulics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory, 2 in internal-combustion engines, 2 in air conditioning, 1 in introduction to hydraulics (4/74).

AR-1715-0242

RADAR DATA PROCESSING CENTER REPAIR

Course Number: 4C-F5; 150-25H20; 11-N-364.2.

Location: Air Defense School, Ft. Bliss, TX.

Length: 28–31 weeks (968–1086 hours).

Exhibit Dates: 11/63–Present.

Objectives: To train warrant officers and enlisted personnel to test, troubleshoot, and repair radar data processing center equipment.

Instruction: Lectures and practical exercises in binary numbers, basic logic elements and circuits, oscilloscopes, semiconductor circuits review, digital circuits and digital testers, processing center power supplies, memory drum and read-write circuitry, data conversion equipment, display equipment, tracking equipment, buffers, digital data transmitters and receivers, and system troubleshooting.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer maintenance, and credit in electronics or electrical laboratory on the basis of institutional evaluation (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer maintenance, and credit in electronics or electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 25G; 25H; 25Z; 211A.

AR-1715-0243

CORPORAL MECHANICAL MATERIEL MAINTENANCE

(Missile Mechanical Materiel Maintenance, Corporal)

Course Number: 6-R-164.3; 6-R-222.2A; 6-E-42.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 8 weeks (276–336 hours).

Exhibit Dates: 10/56–12/68.

Objectives: To train enlisted personnel to assemble, install, maintain, and adjust Corporal mechanical, on-missile, guidance control systems and associated test equipment, and to assemble missiles and check Corporal propulsion and mechanical systems.

Instruction: Lectures and practical exercises in the assembly, installation, maintenance, and adjustment of Corporal mechanical, on-missile, guidance control systems and associated test equipment, and the assembly of missiles and check-out of Corporal propulsion and mechanical systems, including basic electricity, various circuits, test equipment, motors and generators, tactics and combined arms, artillery transport, and specific equipment maintenance.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic electricity (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity (4/74).

AR-1715-0244

REDSTONE MECHANICAL MATERIEL MAINTENANCE

Course Number: 6-R-169.1; 6-R-222.2B.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 8–10 weeks (261–418 hours).

Exhibit Dates: 7/57–12/68.

Objectives: To train enlisted personnel to assemble, install, and maintain Redstone mechanical guidance and control systems and associated test equipment; to perform checks on Redstone propulsion, pneumatic, and mechanical systems; and to operate and supervise maintenance of Redstone servicing equipment.

Instruction: Lectures and practical exercises in the assembly, installation, and maintenance of Redstone on-missile guidance and control systems and associated test equipment; propulsion, pneumatic, and mechanical systems; and operation and supervision of Redstone servicing equipment maintenance, including basic electricity (Ohm's law, AC and DC, motors and generators, series and parallel circuits) and operation of electrical test equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic electricity (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity (4/74).

AR-1715-0245

SPECIALIZED TELETYPEWRITER EQUIPMENT REPAIR

Course Number: *Version 1:* 160-F1. *Version 2:* 160-F1. *Version 3:* 11-R-F22.

Location: Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 10 weeks (380 hours). *Version 2:* 10–13 weeks (373–480 hours).

Version 3: 7 weeks (256 hours). *Version 4:* 6 weeks (217-219 hours).

Exhibit Dates: *Version 1:* 6/78-Present. *Version 2:* 11/68-5/78. *Version 3:* 9/67-10/68. *Version 4:* 7/62-8/67.

Objectives: To train enlisted security agency teletype equipment repairmen to install, maintain, and repair specialized teletypewriter equipment.

Instruction: *Version 1:* Lectures and practical exercises in the installation, maintenance, and repair of specialized teletypewriter equipment, including operation and troubleshooting of keyboards. Practical exercises in the repair of specialized teletypewriter equipment (KSR-37), including power supplies, drivers, logic distributor, speed shift and parity circuits. *Version 2:* Lectures and practical exercises in the installation, maintenance, and repair of specialized teletypewriter equipment, including operation and troubleshooting of keyboards, reperforators, typing units, wire distributors, time sequence generators, power and signal circuitry, control circuits, transmission and channel components, and logic modules (if present) and associated test equipment of specialized and modified teletypewriter equipment. *Version 3:* Lectures and practical exercises in the installation, maintenance, and repair of specialized teletypewriter equipment, including operation and troubleshooting of keyboards, reperforators, typing units, wire distributors, time sequence generators, power and signal circuitry, control circuits, transmission and channel components, and logic modules (if present) and associated test equipment of specialized and modified teletypewriter equipment. *Version 4:* Lectures and practical exercises in the installation, maintenance, and repair of specialized teletypewriter equipment, including operation and troubleshooting of keyboards, reperforators, typing units, wire distributors, time sequence generators, power and signal circuitry, control circuits, transmission and channel components, and logic modules (if present) and associated test equipment of specialized and modified teletypewriter equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in teletypewriter repairer (8/79). *Version 2:* In the vocational certificate category, 3 semester hours as an elective in electricity or electronics (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in electricity or electronics (5/74). *Version 3:* In the vocational certificate category, 2 semester hours as an elective in electricity or electronics (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in electricity or electronics (5/74). *Version 4:* In the vocational certificate category, 1 semester hour as an elective in electricity or electronics (5/74).

Related Occupation Codes: 31J.

AR-1715-0246

1. Surface-to-Surface Missile System Maintenance (Sergeant) Warrant Officer Intermediate
2. Ballistic Missile Maintenance Technician (Sergeant)
3. Ballistic Missile Maintenance Technician (Sergeant)

Course Number: *Version 1:* 4-9-C30-H; 4F-241E-A. *Version 2:* 4F-241E; 122-F2; 2F-241E. *Version 3:* 9-N-241E; 9-N-F25.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL. *Version 3:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 20 weeks (717 hours). *Version 2:* 39 weeks (1386-1414 hours). *Version 3:* 23-46 weeks (856-1705 hours).

Exhibit Dates: *Version 1:* 8/70-Present. *Version 2:* 5/65-7/70. *Version 3:* 3/61-4/65.

Objectives: To train warrant officers who are field artillery missile system technicians, enlisted personnel who have taken an electronic field maintenance course, warrant officers who have training in basic electricity and electronics, or warrant officers who have taken a missile maintenance supervision course to test, inspect, and repair Sergeant missile systems and associated equipment.

Instruction: *All Versions:* Lectures and practical exercises in testing, inspection, and repair of Sergeant missile systems and associated equipment, including supply procedures, nuclear warfare, shop procedures, soldering techniques, electrical test equipment and Sergeant missile system components. *Version 1:* Includes maintenance management; map and aerial photography reading and intelligence; mine warfare; chemical, biological, and radiological warfare; weaponry; and signal communication. *Version 2:* Includes logistics; electronic subjects (transistors, semiconductors, DC amplifiers, oscillators and multivibrators, power supplies, gating curcuits, digital controllers logic, programming, and maintenance); mechanical, hydraulic, and electrical components; and ballistic missile inertial guidance and control equipment repair. *Version 3:* Includes solid-state devices, transistors, power supplies, digital and analog computers, and amplifiers; firing set operation and computer; missile digital control; and mechanical, hydraulic, and electrical components of Sergeant missile systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (3/74). *Version 2:* In the vocational certificate category, 6 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the vocational certificate category, 4 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

Related Occupation Codes: 241E; 214E.

AR-1715-0247

Radio Teletype Operator Skill Development Base

Course Number: 201-05C40-I.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 13 weeks (484 hours).

Exhibit Dates: 7/68-Present.

Objectives: To train enlisted personnel to operate and supervise the operations of a radio teletype.

Instruction: Lectures and practical exercises in the operation of a radio teletype and the supervision of such activities. Course includes leadership training, small-unit tactics, tactical field exercises, general military subjects, organization and employment of signal units, signal systems planning and control, tactical radio communications supervision, and advanced communications operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/74).

Related Occupation Codes: 05C.

AR-1715-0248

Teletype Interception

Course Number: 231-05K20.

Location: Security Agency School, Ft. Devens, MA.

Length: 11 weeks (432 hours).

Exhibit Dates: 1/66-Present.

Objectives: To train enlisted personnel to inspect, maintain, interconnect, and operate all equipment associated with a radio teletypewriter terminal.

Instruction: Lectures and practical exercises in the operation of a radio teletypewriter terminal. Course includes teletypewriter familiarization and operation, and location and repair of system malfunctions. The course does not provide instruction in electrical and mechanical systems repair.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (6/74).

Related Occupation Codes: 05K.

AR-1715-0249

Corporal Maintenance Supervision
(Guided Missile Systems Maintenance Supervision (Corporal))
(Guided Missile Systems Maintenance Supervisors, Corporal II)

Course Number: 9-N-4812; 9-OE-70.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 43 weeks (1582-1602 hours).

Exhibit Dates: 2/56-12/68.

Objectives: To train commissioned and warrant officers and enlisted personnel who have previous technical training to perform as Corporal II guided missile systems maintenance officers.

Instruction: Lectures and practical exercises on the supervision of the maintenance of the Corporal II guided missile systems and associated equipment, including ordnance service in the field, radar set AN/MPQ-25, computer group AN/MSA-6, radio set AN/MRQ-7 (Doppler), mechanical systems and ground handling equipment, Corporal propellants and internal guidance, ordnance guided missile maintenance in the field, ground guidance, missile and CORPORAL systems analysis.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity, electronics, or electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity, electronics, and electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 223B; 223D; 251D; 271A.

AR-1715-0250

Field Artillery Radar Operator
(Field Artillery Radar Crewman)
(Counterbattery/Countermortar Radar Crewman)
(Field Artillery Radar Operation)

Course Number: 221-17B10; 221-17B20; 6-R-156.1; 6-R-211.1; 6-E-22.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: Self paced 6-10 weeks (209-426 hours).

Exhibit Dates: 5/56-Present.

Objectives: To train enlisted personnel to operate and maintain field artillery radar.

Instruction: Lectures and practical exercises in field artillery radar operation and preventive maintenance, including radar site evaluation; equipment emplacement, adjustment, calibration, and orientation; radar gunnery exercises; maintenance procedures; and map reading and plotting routines.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

Related Occupation Codes: 17B; 09B.

AR-1715-0251

Microwave Radio Officer

Course Number: 4C-0503; 11-O-32.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12-14 weeks (432-492 hours).

Exhibit Dates: 9/55-12/67.

Objectives: To train commissioned officers who have completed the signal officer orientation course or its equivalent to perform as microwave radio officers.

Instruction: Lectures and practical exercises on direction and supervision of installation, operation and organizational maintenance of microwave radio and tactical tropospheric scatter equipment, including microwave communications; transportable microwave equipment and systems; specific receivers and transmitters; antennas, radiowave propagation and frequency management; electronic countermeasures; satellite communications; and specific receiving multiplex, RF unit, transmitting multiplex, control units, and systems operation.

Credit Recommendation: In the vocational certificate category, credit in electricity, electronics and electrical laboratory on the basis of institutional evaluation (6/74).

AR-1715-0252

Field Artillery Radar Officer
(Field Artillery Radar)

Course Number: 6-A-0140; 6-O-10.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 3-7 weeks (136-319 hours).

Exhibit Dates: 2/56-12/68.

Objectives: To train officers in field artillery radar operation, maintenance, and employment.

Instruction: Lectures and demonstrations in field artillery radar operation, maintenance, and employment, including target acquisition, fire direction, position fixing and vectoring of light Army aircraft, observation techniques, tactics, communications systems, and electronics.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

AR-1715-0253

1. Digital Subscriber Terminal Equipment (DSTE) Repairer
2. Digital Subscriber Terminal Equipment Repair
   (DSTE Repair)
3. Automatic Data Processing (ADP) Repair, Phase VII—Digital Subscriber Terminal Equipment (DSTE) Repair
   (ADP Repair, Phase VII—DSTE Repair)
   (DSTE Repair)
4. DSTE Repair

Course Number: *Version 1:* 150-34F20. *Version 2:* 150-34F20. *Version 3:* 150-34D20 (Phase VII). *Version 4:* 150-34D20; 622-F11.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA; Communications Electronics School, Ft. Monmouth, NJ. *Version 3:* Signal School, Ft. Gordon, GA. *Version 4:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 23 weeks (849 hours). *Version 2:* 30 weeks (1066-1115 hours). *Version 3:* 20 weeks (745 hours). *Version 4:* 16-19 weeks (602-716 hours).

Exhibit Dates: *Version 1:* 12/77-Present. *Version 2:* 3/75-1/77. *Version 3:* 8/73-2/75. *Version 4:* 8/68-7/73.

Objectives: To train senior technicians to operate, maintain, and repair subscriber terminals of digital communications systems.

Instruction: *Version 1:* Practical exercises in the troubleshooting and repair of digital subscriber terminal equipment. *Version 2:* Lectures and practical exercises in subscriber terminal of digital communications systems operation, maintenance, and repair, including computer data processing and transmission, terminal systems, control keyboards, paper tape and card equipment, forward techniques, computer logic, and control techniques. Topics deal specifically with the digital subscriber terminal equipment. *Version 3:* Lectures and practical exercises in subscriber terminal of digital communications systems operation, maintenance, and repair, including computer data processing and transmission, terminal systems, control keyboards, paper tape and card equipment, forward techniques, computer logic, and control techniques. *Version 4:* Lectures and practical exercises in subscriber terminal of digital communications systems operation, maintenance, and repair, including computer data processing and transmission, terminal systems, control keyboards, paper tape and card equipment, forward techniques, computer logic and control techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in computer peripheral equipment repair (8/79). *Version 2:* In the vocational certificate category, 6 semester hours in digital circuits (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming and 3 semester hours in computer equipment laboratory (4/77). *Version 3:* In the vocational certificate category, 6 semester hours in digital circuits and 2 in digital circuits laboratory (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in digital circuits laboratory (5/75). *Version 4:* In the vocational certificate category, 3 semester hours in digital communications, 3 in terminal equipment and 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital communications, 2 in electrical laboratory, and 3 in terminal equipment on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 3 semester hours in digital communications, 2 in electrical laboratory (6/74).

Related Occupation Codes: 09B; 34F; 34D.

AR-1715-0254

Communications-Electronics Systems Engineer

Course Number: 4C-7750.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 53 weeks (1767 hours). *Version 2:* 50 weeks (1690 hours).

Exhibit Dates: *Version 1:* 3/73-Present. *Version 2:* 6/70-2/73.

Objectives: To train communications and electronics officers in communications and electronic systems planning and engineering.

Instruction: *All Versions:* Lectures and practical exercises in communications and electronic systems planning and engineering, including mathematics review, basic electronics review; radio electronics; transmission system fundamentals; and principles and operation of AM, FM, TV, data communications, and telephone communications systems. *Version 4:* Lectures and practical exercises in subscriber terminal of digital communications systems operation, maintenance, and repair, including computer data processing and transmission, terminal systems, control keyboards, paper tape and card equipment, forward techniques, computer logic, and control techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in technical mathematics (5/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronic communication theory, 3 in electronics, and 2 in electronics laboratory (5/75); in the upper-division baccalaureate category, 3 semester hours in electronic communication theory (5/75). *Version 2:* In the vocational certificate category, 1 semester hour in college algebra, 2 in general electronics, 3 in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in college algebra, 2 in general electronics, 3 in radio electronics, 3 in electronics laboratory, 9 in telecommunications system engineering, 3 in telecommunications laboratory (4/74); in the upper-division baccalaureate category, 1 semester hour in college algebra, 2 in general electronics, 3 in radio electronics, 3 in electronics laboratory, 9 in telecommunications system engineering, 3 in telecommunications laboratory (4/74).

AR-1715-0255

1. Surface-to-Air Missile System Maintenance (Nike) Warrant Officer Intermediate
2. Air Defense Missile Maintenance Technician (Nike)
   (Nike Air Defense Missile Repair)
   (Nike Maintenance Supervision)
   (Nike Maintenance Supervision (Ajax/Hercules))
   (Guided Missile Maintenance Supervision, Nike)

Course Number: *Version 1:* 4-9-C30-G; 4F-251B-A. *Version 2:* 4F-251B; 122-F4; 9-N-251B; 9-N-4811; 9-OE-69.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL; Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 20 weeks (726 hours). *Version 2:* 41-55 weeks (1516-2051 hours).

Exhibit Dates: *Version 1:* 11/71-Present. *Version 2:* 1/56-10/71.

Objectives: To train warrant officers and enlisted personnel to supervise Nike guided missile systems and associated equipment maintenance.

Instruction: Lectures and practical exercises in Nike guided missile systems and associated test equipment maintenance, including AC and DC distribution; basic electronics, including power supplies, multimeter, counters, and oscilloscopes; preventive medicine; chemical, biological and radiological identification and decontamination; leadership training; and management practices and techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (3/74). *Version 2:* In the vocational certificate category, 8 semester hours in shop management (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in shop management (12/68); in the upper-division baccalaureate category, 3 semester hours in shop management (3/74).

Related Occupation Codes: 251B; 222B.

AR-1715-0256

Air Defense Artillery Automatic Weapons Repair

Course Number: 121-16F30; 642-45F20-A.

Location: Air Defense School, Ft. Bliss, TX.

Length: 4-5 weeks (156-177 hours).

Exhibit Dates: 6/66-Present.

Objectives: To train enlisted personnel as artillery mechanics.

Instruction: Lectures and practical exercises in organizational maintenance of unit small arms and air defense artillery automatic weapons, including small arms and general subjects; .50 caliber machine gun and M55 mount; power drive unit and variable response; troubleshooting; twin 40mm gun, self-propelled M42; field stripping; M38 computing sight; automatic weapons firing; organizational maintenance procedures; and maintenance, lubrication, inspection, and troubleshooting of specific guns and mounts.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

Related Occupation Codes: 16F.

AR-1715-0257

Telephone and Teletypewriter Equipment Repair

Course Number: 11-E-30.

Location: Signal School, Ft. Monmouth, NJ.

Length: 14-15 weeks (560-600 hours).

Exhibit Dates: 11/53-12/68.

Objectives: To qualify enlisted personnel as telephone and teletypewriter equipment mechanics.

Instruction: Lectures and practical exercises in the repair of telephone and teletypewriter equipment, including repair of telephone subsets, monocord switchboards, multicord switchboards, power equipment, PBX switchboards, non-multiple C.B. switchboards, and multiple C.B. switchboards; telephone and teletypewriter repair shop procedures; field training; and repair, testing, and troubleshooting of associated equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in telephone and teletype repair, and credit in electrical laboratory on the basis of institutional evaluation (6/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (6/74).

AR-1715-0258

Nuclear Weapons Maintenance (Entry)

(Atomic Weapons Electronics (Entry))

Course Number: 9-R-260.0; 9-E-55.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12 weeks (434-440 hours).

Exhibit Dates: 9/56-12/68.

Objectives: To train enlisted personnel as atomic weapons electrical assembly helpers.

Instruction: Lectures and practical exercises in electronics and in the repair of atomic weapons systems and equipment, including supply procedures and catalogs, electrical fundamentals, use of Ohm's law formulas and measurements using TS-352, induction, AC and DC motors and generators, electronics as applied to basic receivers, diode vacuum tubes, alignment of a superheterodyne receiver, electronics as applied to basic transmitters, nonsinusoidal circuitry, and radio set AN/VRC-19.

Credit Recommendation: In the vocational certificate category, 6 semester hours in radio and electronics, 3 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in radio and electronics, and credit in electrical laboratory on the basis of institutional evaluation (6/74).

AR-1715-0259

Radar and Countermeasures Equipment Repair Officer

Course Number: 11-0-19.

Location: Signal School, Ft. Monmouth, NJ.

Length: 18 weeks (632-660 hours).

Exhibit Dates: 9/56-12/68.

Objectives: To train commissioned and warrant officers to direct and supervise maintenance and repair of radar and electronic countermeasures equipment.

Instruction: Lectures and practical exercises in the supervision of radar and electronic countermeasures equipment repair. Topics include AC/DC networks, resonance and transients, vacuum tube electronics including amplifiers, cathode followers, sweep circuits, pulse and microwave circuits, and functional block-diagram analysis of radar systems. Instruments used include multimeters, oscilloscopes, audio oscillators, signal generators, frequency meters, and pulse generators.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electricity or electronics, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics for non-electrical engineering majors, and credit in electrical laboratory on the basis of institutional evaluation (6/74).

AR-1715-0260

1. Teletypewriter Repairer
2. Teletypewriter Repairman
3. Teletypewriter Equipment Repair
4. Teletypewriter Equipment Repair
   (Teletypewriter Equipment Maintenance)

Course Number: *Version 1:* 106-31J10. *Version 2:* 160-31J20. *Version 3:* 160-31J20. *Version 4:* 11-R-341;1 11-R-340;0 11-E-11.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA. *Version 3:* Southeastern signal School, Ft. Gordon, GA. *Version 4:* Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 20 weeks (730 hours). *Version 2:* 15-21 weeks (543-766 hours). *Version 3:* 21-25 weeks (771-930 hours). *Version 4:* 18-20 weeks (703-736 hours).

Exhibit Dates: *Version 1:* 10/78-Present. *Version 2:* 5/77-9/78. *Version 3:* 9/66-4/77. *Version 4:* 12/53-8/66.

Objectives: To train maintenance personnel to install, troubleshoot, and repair teletypewriter systems.

Instruction: *Version 1:* Lectures and laboratory in installing, troubleshooting, and repairing six different teletypewriter systems. These systems include electrical and mechanical components. *Version 2:* Lectures and laboratory in communications introduction; teletypewriter fundamentals; installation of teletypewriter systems; field and depot shop maintenance. Note: Students who have completed Modules 202, 4 and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (15 weeks) of this course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (21 weeks) of this course. *Version 3:* Lectures and laboratory in communications introduction; teletypewriter fundamentals; installation of teletypewriter systems; field and depot shop maintenance. Includes facsimile equipment. *Version 4:* Lectures and laboratory in communications introduction; teletypewriter fundamentals; installation of teletypewriter systems; field and depot shop maintenance. Includes introductory electricity.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in teletype repair (8/79). *Version 2:* In the vocational certificate category, 5 semester hours in teletype repair, 1 in facsimile repair, 2 in electrical laboratory for students who complete 15 or 21 weeks of the course (see NOTE above). *Version 3:* In the vocational certificate category, 5 semester hours in teletype repair, 1 in facsimile repair, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional evaluation (6/74). *Version 4:* In the vocational certificate category, 1 semester hour in basic electricity, 5 in teletype repair, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 2 in electrical laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in basic electricity, 2 in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional evaluation (6/74).

Related Occupation Codes: 31J; 09B.

AR-1715-0261

Signal Field Grade Officer Refresher

Course Number: 11-A-C8.

Location: Signal School, Ft. Monmouth, NJ.

Length: 4 weeks (140 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To qualify commissioned officers as signal field grade officers.

Instruction: Lectures and demonstrations in methods and system design of telephone and radio link communications. Topics include basic telephone circuits, automatic switching, cable layout and loading, repeater and microwave links, and communications center operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in telephone and radio systems (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in telephone and radio systems on the basis of institutional evaluation (6/74).

AR-1715-0262

Field and Fixed Station Radio Officer

Course Number: 11-A-0501; 11-A-0502; 11-O-26.

Location: Signal School, Ft. Monmouth, NJ.

Length: 11 weeks (394–398 hours).

Exhibit Dates: 7/55–12/68.

Objectives: To train commissioned officers to direct and supervise the installation, operation, and organizational maintenance of field and fixed station radio equipment.

Instruction: Lectures and practical exercises in basic fundamentals of electricity and radio communications. Topics include AC and DC fundamentals, vacuum tubes and amplifiers, CW and AM transmitters, AM and FM receivers, antennas, field radio sets, radio relay, tactical radio net operations, fixed station operations and servicing procedures, electronic countermeasures, and radiotelegraph operations.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity, 2 in electrical laboratory, all on the basis of institutional examination (6/74); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (12/68).

AR-1715-0263

Emergency Action Console Repair

Course Number: 622-F13.

Location: Signal School, Ft. Monmouth, NJ; Signal School, Ft. Gordon, GA.

Length: 8–9 weeks (288–324 hours).

Exhibit Dates: 3/70–Present.

Objectives: To train enlisted dial central office repairmen to operate and maintain the emergency action console.

Instruction: Lectures and practical exercises in emergency action console repair, including description and function of emergency action console; operator's console and recorder; console register line identification and access; equipment interface with EAC, systems analysis and strapping procedures; supervisory and power equipment; distribution system and fault analysis; systems training; strapping of a specific register and marker; and system review and common control troubleshooting.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/74).

Related Occupation Codes: 36H.

AR-1715-0264

Area Communications Systems Operations

Course Number: *All Versions:* 580-31Z40. *Version 2:* 11-R-727.7.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 15 weeks (547 hours). *Version 2:* 18–19 weeks (666–727 hours).

Exhibit Dates: *Version 1:* 5/74–Present. *Version 2:* 8/60–4/74.

Objectives: To train enlisted personnel as area communications chiefs.

Instruction: Lectures and practical exercises in the supervision, installation, operation, and maintenance of an integrated area communications system, including concept and application of area communications systems; communications system for combat and support elements; forward-area communications; division command communications; airborne and airmobile division communications; division, corps, and army radio nets; corps and army communications; and theater communications.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in basic telecommunications electricity or electronics (5/75). *Version 2:* In the vocational certificate category, 4 semester hours in business organization and management, 4 in wire and radio communications (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management, 4 in wire and radio communications (6/74); in the upper-division baccalaureate category, 4 semester hours in business organization and management, and credit in wire and radio communication on the basis of institutional evaluation (12/68).

Related Occupation Codes: 31Z.

AR-1715-0265

Regular Army Signal Officer Basic

Course Number: 4-11-C20RA.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 6 weeks (222 hours).

Exhibit Dates: 6/67–Present.

Objectives: To qualify commissioned officers as signal officers.

Instruction: Lectures and practical exercises in the basics of radio and telephone communications systems. Topics include communications center operations, wire communications, radio communications, applied communications, and general military subjects.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radio and telephone communications systems (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio and telephone communications systems (6/74); in the upper-division baccalaureate category, 3 semester hours in military science (12/68).

AR-1715-0266

Telephone and Teletypewriter Officer
(Wire Communications Officer)

Course Number: 4C-0400; 11-A-0400.

Location: Signal School, Ft. Monmouth, NJ.

Length: 11–14 weeks (484–494 hours).

Exhibit Dates: 4/57–Present.

Objectives: To train officers to perform as telephone and teletypewriter officers.

Instruction: Lectures and practical exercises in supervision, management, planning, installation, operation, and maintenance of telephone, teletypwriter, and carrier facilities, equipment, and systems; including signal center operations; mathematics for communications-electronics; electrical fundamentals; telephone transmission principles; outside-plant principles and practices; telephone systems and equipment; fundamentals of facsimile systems; carrier transmission systems and equipment; radio communications; and ground mobile communications equipment.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in telecommunications, and additional credit in telecommunications on the basis of institutional evaluation (6/74).

AR-1715-0267

Defense Special Security Communications System Operator
(DSSCS Operator)

Course Number: 580-F2.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 2–3 weeks (66–118 hours).

Exhibit Dates: 8/73–Present.

Objectives: To train enlisted personnel to operate the Defense Special Security Communications System (DSSCS).

Instruction: Lectures and practical exercises in the operation of a defense special security communications system (DSSCS) terminal. Topics include message preparation, log messages, Baudot five-level teletypewriter code (with emphasis on scanning for format), and operation of the message header generator. and operation of the message header generator.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (6/74).

Related Occupation Codes: 72B; 72F.

AR-1715-0268

Telephone-Digital Communications Officer

Course Number: 4C-25C; 4C-26C; 4C-0405.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 11–13 weeks (345–440 hours). *Version 2 :* 11–13 weeks (452 hours).

Exhibit Dates: *Version 1:* 4/75–Present. *Version 2:* 3/73–3/75.

Objectives: To train officers to supervise, manage, plan, install, operate, and maintain telephone, teletypewriter, and carrier equipment, facilities, and systems.

Instruction: Lectures and practical exercises in the operation and maintenance of telephone and digital communications. Course includes basic electronics and mathematics as applied to the repair of telephone equipment and systems; teletypewriter equipment and systems; carrier and ground mobile communications equipment and systems; communications security; communications-electronics systems engineering; and maintenance management.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in basic electronics and telecommunications (5/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and telecommunications and 1 in electronics laboratory (5/75). *Version 2:* In the vocational certificate category, 3 semester hours in basic electricity, 3 in electronics, 3 in telephone systems (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in electronics, and, on the basis of institutional evaluation, 3 in telephone systems (6/74); in the upper-division baccalaureate category, 3 semester hours in basic electricity, and 3 in electronics on the basis of institutional evaluations (6/74).

AR-1715-0269

AIRCRAFT FIRE CONTROL REPAIR

Course Number: 112-35J20.

Location: Transportation School, Ft. Eustis, VA; Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 15–21 weeks (486–687 hours). *Version 2:* 16–20 weeks (496–697 hours).

Exhibit Dates: *Version 1:* 8/76–Present. *Version 2:* 9/70–7/76.

Objectives: To train enlisted personnel as aircraft fire control repairmen.

Instruction: *All Versions:* Lectures and practical exercises in direct and general support maintenance of fire control systems, aircraft armament subsystems electronic components, and system-peculiar test equipment, including helicopter armament subsystem repair; M5 helicopter armament subsystem; LOH and UH-1 helicopter armament subsystems; AH-1G helicopter armament subsystems; fire control systems review and maintenance; solid-state circuitry; applied electronics; rocket control and display subsystem; and optics. *Version 1:* Note: Students who have completed Modules 201, 202, 203 and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete Phases II and III (15 weeks). See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete Phases I, II, and III for 21 weeks.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 4 semester hours in electricity and electronics (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (6/75); in the upper-division baccalaureate category, 2 semester hours in electronics laboratory (6/75).

Related Occupation Codes: 35J.

AR-1715-0270

SIGNAL OFFICER FAMILIARIZATION

Course Number: 11-A-C21.

Location: Signal School, Ft. Monmouth, NJ.

Length: 6 weeks (212–220 hours).

Exhibit Dates: 3/60–12/68.

Objectives: To train officers in the organization, operational functions, duties and responsibilities of the Signal Corps.

Instruction: Lectures and practical exercises in the organization, operational functions, duties and responsibilities of the Signal Corps, including logistics, automatic data processing systems, organization and tactics, radio communications, telephone communications, communications center operations, signal plans and operations, electronic warfare, equipment use within the army signal battalions, and CONUS logistical support to a theater of operations.

Credit Recommendation: In the upper-division baccalaureate category, Credit in radio and wire communications on the basis of institutional evaluation (12/68).

AR-1715-0271

TECHNICAL EVALUATION PROGRAM (TEP) TRAINING

Course Number: 101-F13.

Location: Signal School, Ft. Gordon, GA.

Length: 10–11 weeks (357–381 hours).

Exhibit Dates: 10/75–Present.

Objectives: To provide students with the techniques required to perform technical and operational measurements, analysis, and evaluation of communications equipment.

Instruction: Instruction covers testing procedures and microwave system operation and testing procedures, including some basic mathematics, noise and level measurements distortion, noise power, frequency response, gain, and other communications-system-related evaluation procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in microwave communications systems (4/77).

Related Occupation Codes: 26V; 26Y; 32D; 32E.

AR-1715-0272

1. TACTICAL MICROWAVE SYSTEMS REPAIR
2. TACTICAL MICROWAVE SYSTEMS REPAIR
3. TACTICAL MICROWAVE SYSTEMS REPAIR
4. MICROWAVE RADIO EQUIPMENT REPAIR
5. MICROWAVE RADIO EQUIPMENT REPAIR

Course Number: *Version 1:* 101-26L20. *Version 2:* 101-26L20. *Version 3:* 101-26L20. *Version 4:* 11-R-281;1 11-E-24. *Version 5:* 11-E-24.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ. *Version 3 :* Signal School, Ft. Monmouth, NJ. *Version 4 :* Signal School, Ft. Monmouth, NJ. *Version 5 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 23–29 weeks (847–1070 hours). *Version 2:* 36 weeks (1352 hours). *Version 3:* 28 weeks (1048 hours). *Version 4:* 28–30 weeks (1040–1116 hours). *Version 5:* 26 weeks (1040 hours).

Exhibit Dates: *Version 1:* 9/74–12/78. *Version 2:* 11/71–8/74. *Version 3:* 11/68–10/71. *Version 4:* 11/55–10/68. *Version 5:* 10/53–10/55.

Objectives: To train enlisted personnel to operate, install, and repair tactical microwave radio systems.

Instruction: *All Versions:* Lectures and laboratory in tactical microwave radio systems installation, operation, and repair, including electrical fundamentals, audio amplifier basics, electronic devices and circuits, elements of electronic communications, microwave techniques, and electronic principles applied to specific equipment. *Version 1:* Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (23 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (29 weeks) of this course. *Version 2:* Instruction includes solid-state devices. *Version 3:* Instruction includes solid-state devices.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electronics laboratory for those students completing 23 weeks; or 3 semester hours in basic electronics for students completing 29 weeks (see note above) (5/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 1 in electronics laboratory for those students completing 23 weeks; or 5 semester hours in basic electronics and 1 in electronics laboratory for those students completing 29 weeks (see note above) (5/75). *Version 2:* In the vocational certificate category, 15 semester hours in electronic communications, 5 in electronic communications laboratory (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronic communications, 3 as an elective in electronic communications, 3 in electronic communications laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours as an elective in electronic communications on the basis of institutional evaluation (6/74). *Version 3:* In the vocational certificate category, 15 semester hours in electronic communications, 5 in electronic communications laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in electronic communications on the basis of institutional evaluation (6/74). *Version 4:* In the vocational certificate category, 12 semester hours in electronic communications, 4 in electronic communications laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in electronic communications on the basis of institutional evaluation (6/74). *Version 5:* In the vocational certificate category, 12 semester hours in electronic communications, 4 in electronic communications laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity, 6 in radio (12/68); in the upper-division baccalaureate category, 3 semester hours as elective in electronic communications on the basis of institutional evaluation (6/74).

Related Occupation Codes: 26L.

AR-1715-0273

ARTILLERY COMMUNICATIONS OFFICER

Course Number: 6-A-0200; 6-B-0200; 6-O-6.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 12–15 weeks (457–640 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train officers in artillery communications.

Instruction: Lectures and practical exercises in the supervision and coordination of the installation, operation, and maintenance of artillery communication equipment and systems, including radiotelephone procedures and security, fundamentals of electricity and radio, wire communications, FM and AM equipment, signal supply operations and maintenance prodedures, radiotelegraph, radio teletypewriter procedures, message center procedures and cryptography, field artillery communication system, and maintenance of computers.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity and radio operation and maintenance, 1 in electrical laboratory (6/74).

AR-1715-0274

CORPORAL OFFICER

Course Number: 6-A-1190A; 6-A-1190.

Location: Artillery and Guided Missile School, Ft. Sill, OK.

Length: 10 weeks (344–412 hours).

Exhibit Dates: 4/57–12/68.

Objectives: To train commissioned officers in the capabilities, limitations, and operation of a specific missile and its equipment.

Instruction: Lectures and practical exercises in the operation of the Corporal missile. Topics include artillery transport, communications and electronics, gunnery, equipment and accessories, tactics and combined arms, and target acquistion. Course contains a limited coverage of electrical circuit fundamentals.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (6/74).

AR-1715-0275

CORPORAL MAINTENANCE OFFICER

Course Number: 6-A-1191; 6-O-41.

Location: Artillery and Guided Missile School, Ft. Sill, OK.

Length: 32–33 weeks (1366–1436 hours).

Exhibit Dates: 10/56–12/68.

Objectives: To train artillery officers in Corporal maintenance.

Instruction: Lectures and practical exercises in the function, technical operations, characteristics, maintenance, and inspection of Corporal fire control systems, launching and handling equipment, and on-missile material, including communications and electronics; mathematics; fundamentals of electricity; radio electronics; radar electronics; target acquisition; AN/MPQ-25 radar; Doppler; AN/MSA-6 computer; emplacement and loop checks; Corporal missile components, test equipment, and check-out and firing procedures; propulsion system, uncrating assembly, and service area check-out; and Corporal atomic warhead.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68).

AR-1715-0276

AN/TPQ-21 HAWK GUIDED MISSILE SYSTEM SIMULATOR MAINTENANCE

Course Number: 121-24F30; 4F-F6; 121-F10; 44-R-F42.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8–9 weeks (305–348 hours).

Exhibit Dates: 7/64–Present.

Objectives: To train enlisted personnel to operate, adjust, and maintain a guided missile system simulator.

Instruction: Lectures and practical exercises in guided missile system simulator operation, adjustment and maintenance, including AC and DC control circuits, control console, countermeasures console, system analysis, operating procedures, programming, transistors, safety and test equipment, power system, and maintenance and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical maintenance laboratory (6/74).

Related Occupation Codes: 24F.

AR-1715-0277

AVIONIC EQUIPMENT MAINTENANCE SUPERVISOR

Course Number: 102-35P40.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 19 weeks (702 hours). *Version 2:* 22 weeks (826 hours).

Exhibit Dates: *Version 1:* 10/67–12/68. *Version 2:* 5/66–9/67.

Objectives: To train enlisted personnel as avionic equipment maintenance supervisors.

Instruction: Lectures and practical exercises in advanced maintenance techniques and maintenance supervision of avionic equipment, including advanced electronics; semiconductor principles, transistor types, transistor circuits, zener and tunnel diode operation; avionic communications and navigation equipment; automatic flight control equipment; and supervisory and training techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electronics, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 1 in electrical laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours as an elective in electronic circuits (6/74). *Version 2:* In the vocational certificate category, 6 semester hours in electronics, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in electronic circuits (6/74).

Related Occupation Codes: 35K; 35L; 35M; 35N; 35P.

AR-1715-0278

TELEVISION EQUIPMENT REPAIR

Course Number: *Version 1:* 191-26T20. *Version 2:* 11-R-285.1. *Version 3:* 11-R-285;1 11-E-35.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 33 weeks (1175 hours). *Version 2:* 33 weeks (1238 hours). *Version 3:* 25–27 weeks (926–1002 hours).

Exhibit Dates: *Version 1:* 5/73–Present. *Version 2:* 8/68–4/73. *Version 3:* 2/56–7/68.

Objectives: To train enlisted personnel to install, operate, maintain, and repair television receivers, camera chains, studio equipment microwave links, video tape recorders and closed-circuit systems.

Instruction: *All Versions:* Lectures and practical exercises in electrical fundamentals, electronics as applied to basic amplifiers and receivers, generation of RF energy, monochrome television receivers, image orthicon cameras, vidicon television equipment, and color television. *Version 1:* Instruction includes video tape recorders and semiconductor fundamentals. *Version 2:* Instruction includes video tape recorders and semiconductor fundamentals.

Credit Recommendation: *Version 1:* In the vocational certificate category, 24 semester hours in television systems, 8 in television systems laboratory (6/74); in the lower-division baccalaureate/associate degree category, 9 semester hours in television systems, 2 in television systems laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours as an elective in television systems, 1 in television systems laboratory (6/74). *Version 2:* In the vocational certificate category, 24 semester hours in television systems, 8 in television systems laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in television systems, 1 in television systems laboratory (6/74). *Version 3:* In the vocational certificate category, 18 semester hours in television systems, 6 in television systems laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in television systems, 1 in television systems laboratory (6/74).

Related Occupation Codes: 26T.

AR-1715-0279

PROJECTOR EQUIPMENT REPAIR

(Sound Projector Repair)

Course Number: 198-41F20; 11-R-401.2; 11-E-28.

Location: Signal School, Ft. Monmouth, NJ.

Length: 10–11 weeks (386–402 hours).

Exhibit Dates: 7/54–Present.

Objectives: To train enlisted personnel as projector repairmen.

Instruction: Lectures and practical exercises on the maintenance and repair of still and sound motion picture projectors and audio tape recorders, and related equipment, including electrical fundamentals, audio amplifiers, principles of photographic equipment repair, tape recorders, repair of specific projector sets, basic optics and shop practices, sound motion picture projectors, maintenance of screens, and supply and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electromechanics, 2 in electromechanical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electromechanics, 1 in electromechanical laboratory (6/74).

Related Occupation Codes: 41F; 41H.

AR-1715-0280

CORPORAL FIRE CONTROL SYSTEM MAINTENANCE

Course Number: 6-N-1186; 6-N-228.2.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 32 weeks (1291 hours).

Exhibit Dates: 8/58–1/62.

Objectives: To train warrant officers and enlisted personnel to adjust, maintain, and operate Corporal fire control systems.

Instruction: Lectures and practical exercises in the operation and maintenance of Corporal fire control systems. Topics include communications, mathematics, fundamentals of electricity and electronics, and specific radar, Doppler, and computer systems.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68).

Related Occupation Codes: 221B; 221C; 222B; 251B; 223B; 223D; 251D; 224B.

AR-1715-0281

FIELD ARTILLERY BATTERY OFFICER

(Field Artillery and Surface-to-Surface Missile Battery Officer)

Course Number: 6-A-C2; 6-O-1.

Location: Artillery and Guided Missile School, Ft. Sill, OK.

Length: 33–36 weeks (1133–1302 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train officers to be field artillery battery officers.

Instruction: Lectures and practical exercises in basic electricity, gunnery, material, motors, military tactics, associated ground handling equipment, communication equipment, field artillery radar, ground guidance systems, leadership, air-ground special operations, and special weapons employment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic electrical laboratory (6/74).

AR-1715-0282

Fixed Station Terminal Repair

Course Number: 11-E-43.

Location: Signal School, Ft. Monmouth, NJ.

Length: 24 weeks (960 hours).

Exhibit Dates: 9/54–12/68.

Objectives: To train enlisted personnel to perform as fixed-station terminal equipment repairmen.

Instruction: Lectures and practical exercises in the installation, operation, and repair of fixed-station terminal radio communications equipment, and the rebuilding and overhaul of fixed-station radio transmitters, receivers, and terminal equipment, including introduction to communications and electricity; basic electronic circuits; fixed-station fundamentals; antenna systems; telephone and telegraph fundamentals; fixed-station carrier fundamentals; four-channel, twelve-channel, and single-sideband carrier equipment; and fixed-station integrated communication systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (6/74).

AR-1715-0283

1. Armor Communication Officer
2. Armor Communication Officer (Armor Communication)

Course Number: *Version 1:* 17-A-0200. *Version 2:* 17-B-0200; 17-O-7.

Location: Armor School, Ft. Knox, KY.

Length: *Version 1:* 8 weeks (300 hours). *Version 2:* 10 weeks (355–375 hours).

Exhibit Dates: *Version 1:* 5/63–12/68. *Version 2:* 10/55–4/63.

Objectives: To train commissioned officers to supervise the installation, operation, and maintenance of field communications systems.

Instruction: *All Versions:* Lectures and practical exercises in field communication systems installation; message center procedures and codes; care and use of test equipment; field radio maintenance, troubleshooting, and repair; and some AM, FM, and CW theory. *Version 2:* Instruction includes AC and DC circuit theory, Ohm's law, and vacuum tube theory.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electricity or radio operation and maintenance on the basis of institutional examination (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or radio operation and maintenance on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, credit in electronics or radio operation and maintenance on the basis of institutional evaluation (12/68). *Version 2:* In the vocational certificate category, 3 semester hours in electricity or radio operation and maintenance on the basis of institutional evaluation (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or radio operation and maintenance on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, credit in electricity or radio operation maintenance on the basis of institutional evaluation (12/68).

AR-1715-0284

1. Unattended Ground Sensor Mechanic
2. Unattended Ground Sensor Specialist/Maintenance Specialist

Course Number: *Version 1:* 221-17M30. *Version 2:* 221-17M20.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: *Version 1:* 5 weeks (165 hours). *Version 2:* 10 weeks (323 hours).

Exhibit Dates: *Version 1:* 3/75–Present. *Version 2:* 4/73–2/75.

Objectives: To train enlisted personnel in the operation and installation of unattended ground sensor equipment.

Instruction: *All Versions:* Lectures and practical exercises in the operation and installation of unattended ground sensor equipment, and the maintenance and repair of radio-link sensors, read-out equipment, relays, antennas and test equipment associated with unattended ground sensor systems, including physical security sensors, radio-link sensors, sensor read-out, relay and employment, non-type classified sensors, sensor assembly test and maintenance, portable monitoring equipment, antenna group AN/USA-32, and relay and automated read-out equipment. *Version 1:* Topics include testing and maintenance, by subassembly replacement, of radio link sensors, readout and associated test equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in electronic equipment servicing laboratory (6/75). *Version 2:* In the vocational certificate category, 1 semester hour in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory on the basis of institutional evaluation (6/74).

Related Occupation Codes: 17M.

AR-1715-0285

Antiaircraft Artillery Remote Control Repair (Basic)

Course Number: 9-R-301.1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (280 hours).

Exhibit Dates: 1/57–12/68.

Objectives: To train enlisted personnel to perform as antiaircraft artillery remote control repairmen.

Instruction: Lectures and practical exercises in antiaircraft artillery remote control repair, including general subjects; hydraulics and mechanics; purpose and operation of gear trains, differential assemblies, speed reducers, and cams; electrical fundamentals; meters and test equipment; electron tubes; synchros; series, parallel, and series-parallel DC circuits; cable repair; 90mm and 120mm AAFCS equipment; and light AAA control systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electricity and electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity and electrical laboratory (6/74).

AR-1715-0286

1. Systems Engineering, Analysis and Management (Guided Missile)
2. Guided Missile Systems Officer
3. Guided Missile Systems Officer
4. Guided Missile Systems Officer
5. Guided Missile Staff Officer
6. Guided Missile Staff Officer

Course Number: *Version 1:* 4F-14F; 4F-1181. *Version 2:* 4F-1181. *Version 3:* 44-A-1181. *Version 4:* 44-A-1181. *Version 5:* 44-A-1181. *Version 6:* 44-O-5.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Air Defense School, Ft. Bliss, TX. *Version 3:* Air Defense School, Ft. Bliss, TX. *Version 4:* Air Defense School, Ft. Bliss, TX. *Version 5:* Air Defense School, Ft. Bliss, TX. *Version 6:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 35 weeks (1346 hours). *Version 2:* 30–33 weeks (1090–1136 hours). *Version 3:* 39 weeks (1302–1389 hours). *Version 4:* 38 weeks (1270–1306 hours). *Version 5:* 35 weeks (1216 hours). *Version 6:* 26 weeks (840 hours).

Exhibit Dates: *Version 1:* 9/75–Present. *Version 2:* 3/68–8/75. *Version 3:* 7/61–2/68. *Version 4:* 7/58–6/61. *Version 5:* 6/57–6/58. *Version 6:* 2/57–5/57.

Objectives: To provide officers with knowledge relative to research, development and application of guided missile systems.

Instruction: *All Versions:* Lectures, discussion groups, and demonstrations in vector and differential calculus, electricity and electronics, basic physics, nuclear physics, electronics, systems analysis, radiation theory and radar, mechanics, aerodynamics, guidance and control, and propulsion. *Version 3:* Instruction includes air defense operations and tactics, nuclear weapons employment, and SSM systems. *Version 4:* Instruction includes Hawk system, Nike materiel, air defense tactics, missile response equations, and combined arms. *Version 5:* Instruction includes Corporal system, air atomic defense tactics, Nike materiel, and guided missile tactics. *Version 6:* Instruction includes range facilities and firing at WSPG, engineering machanics and thermodynamics, and advanced guidance systems.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in engineering mathematics, 3 in electronics, 3 in mechanics, 3 in system dynamics (8/77). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in engineering mathematics, 6 in electricity and electronics, 3 in mechanics, and 3 in systems analysis (6/74). *Version 3:* In the upper-division baccalaureate category, 15 semester hours in engineering electronics, mechanics, aeropropulsion, or aerodynamics, 3 in systems analysis, and credit in mathematics and physics on the basis of institutional evaluation (12/68). *Version 4:* In the upper-division baccalaureate category, 15 semester hours in engineering electronics, mechanics, aeropropulsion, or aerodynamics, and credit in mathematics and physics on the basis of institutional evaluation (12/68). *Version 5:* In the upper-division baccalaureate category, 12 semester hours in engineering electronics, mechanics, aeropropulsion, or aerodynamics, and credit in mathematics and physics on the basis of institutional evaluation (12/68). *Version 6:* In the upper-division baccalaureate category, 10 semester hours in engineering electronics, mechanics, aeropropulsion, or aerodynamics and credit in mathematics and physics on the basis of institutional evaluation (12/68).

AR-1715-0287

Nike Ajax Missile Mechanical Maintenance

Course Number: 44-R-172.1.

Location: Air Defense School, Ft. Bliss, TX.

Length: 6–7 weeks (208–232 hours).

Exhibit Dates: 10/59–12/68.

Objectives: To train enlisted personnel as Nike Ajax missile mechanics.

Instruction: Lectures and practical exercises in Nike Ajax missile mechanical maintenance, including basic electricity, mechanical materiel of Nike Ajax assembly and launching areas, Nike Ajax missile preparation and depreparation, electrical units, propulsion system and warheads, launcher and launching area equipment and operations, and missile electrical check-out.

Credit Recommendation: In the vocational certificate category, 8 semester hours in missile maintenance technology, 2 in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in missile maintenance technology, 1 in electronics laboratory (6/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (6/74).

AR-1715-0288

1. Associate Air Defense Missile Battery Officer
2. Associate Antiaircraft Artillery (AAA) Missile Battery Officer
3. Associate Surface-to-Air Missile (SAM) Battery Officer

Course Number: *Version 1:* 44-A-C3B. *Version 2:* 44-A-C3B. *Version 3:* 44-O-2B.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Air Defense School, Ft. Bliss, TX. *Version 3:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 16 weeks (585–591 hours). *Version 2:* 17 weeks (620 hours). *Version 3:* 16–17 weeks (600–660 hours).

Exhibit Dates: *Version 1:* 7/58–12/68. *Version 2:* 9/57–6/58. *Version 3:* 3/55–8/57.

Objectives: To train officers as air defense battery officers assigned to SAM units.

Instruction: Lectures and practical exercises in internal-combustion and diesel engines, basic electronics, basic radar, analog computers, communications, characteristics and operation of Nike Ajax Battery Control equipment and operations, nuclear weapons, special warheads, air defense tactics, and carbine marksmanship.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electricity and electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity and electrical laboratory (6/74). *Version 2:* In the vocational certificate category, 2 semester hours in electricity and electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (12/68). *Version 3:* In the vocational certificate category, 4 semester hours in electricity and electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity, and credit in electrical laboratory on the basis of institutional evaluation (12/68).

AR-1715-0289

1. Air Defense Missile Staff Officer (Hawk)
   (Surface-to-Air Missile Staff Officer (Hawk))
2. Surface-to-Air Missile Staff Officer (Hawk)
3. SAM Staff Officer (Hawk)
4. SAM Staff Officer (Hawk)
5. Surface-to-Air Missile Staff Officer (Hawk)

Course Number: *Version 1:* 2G-1178. *Version 2:* 44-A-F21. *Version 3:* 44-A-F21. *Version 4:* 44-A-F21. *Version 5:* 44-A-F21.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 17–18 weeks (635–676 hours). *Version 2:* 19 weeks (722–734 hours). *Version 3:* 37 weeks (1271–1354 hours). *Version 4:* 35 weeks (1216 hours). *Version 5:* 35 weeks (1288 hours).

Exhibit Dates: *Version 1:* 1/68–Present. *Version 2:* 9/64–12/67. *Version 3:* 7/61–8/64. *Version 4:* 4/60–6/61. *Version 5:* 4/59–3/60.

Objectives: To train commissioned officers to operate, maintain, inspect, and technically employ Hawk missile systems.

Instruction: Lectures and practical exercises in basic electronics, including AC and DC circuits, linear elements, vacuum tubes, and transistors; communication receivers; radar fundamentals; use of electronic test equipment; pulse acquisition radar and range only radar; and loader, launcher and missile components.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74). *Version 2:* In the vocational certificate category, 8 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74). *Version 3:* In the vocational certificate category, 8 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74). *Version 4:* In the vocational certificate category, 6 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74). *Version 5:* In the vocational certificate category, 6 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74).

AR-1715-0290

Surface-to-Air Missile System Maintenance (Hawk) Warrant Officer Advanced

Course Number: 4-9-C32; 4-9-C32-A; 4F-251C-B.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 19 weeks (689 hours).

Exhibit Dates: 2/72–10/76.

Objectives: To train warrant officers in logistical management and operation of Hawk surface-to-air missiles.

Instruction: Lectures and practical exercises in maintenance and operation of Hawk surface-to-air missiles. Topics include personnel management, data processing techniques, supply and administration, maintenance procedures, troubleshooting, and operation of Hawk missile systems.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electronics laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours as a technical elective in business administration, or 2 semester hours in electronics laboratory for non-electrical-engineering majors (6/74).

AR-1715-0291

Lacrosse Fire Control Operation

Course Number: 6-R-167.6; 6-R-F9.

Location: Artillery Missile School, Ft. Sill, OK.

Length: 3–5 weeks (139–198 hours).

Exhibit Dates: 2/58–12/68.

Objectives: To train enlisted personnel as Lacrosse field artillery missile fire control crewmen.

Instruction: Lectures and practical exercises on adjustment, maintenance, and operation of Lacrosse missile guidance central and auxiliary equipment, including communications and electronics, basic electronics, communications, gunnery, firing data, material, Lacrosse missile, and guidance section, tactics and combined arms, launcher, target acquisition, map reading, organizational maintenance, and tactical deployment.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (6/74).

AR-1715-0292

Nike Maintenance Chief Noncommissioned Officer (NCO) Advanced

Course Number: 104-23W50-EC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 19 weeks (684 hours).

Exhibit Dates: 9/71–3/73.

Objectives: To train enlisted personnel in operation, organizational check-out and functional analysis of Nike missile maintenance equipment.

Instruction: Lectures and practical exercises in the duties of Nike missile maintenance chiefs. Course includes training on electronic test equipment, communications equipment, power supplies, and basic computer fundamentals.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electronics laboratory (6/74).

Related Occupation Codes: 22G; 22L; 22M; 23N; 23U; 23W.

AR-1715-0293

Hawk Maintenance Chief Noncommissioned Officer (NCO) Advanced

Course Number: 121-23V50-EC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 19 weeks (684 hours).

Exhibit Dates: 7/71-3/73.

Objectives: To train enlisted personnel to operate and organize check-out procedures and functional analysis of Hawk missile maintenance equipment.

Instruction: Lectures and practical exercises in the duties of Hawk missile maintenance chiefs. Course includes training on electronic test equipment and communications equipment, power supplies, and basic computer fundamentals.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electronics laboratory (6/74).

Related Occupation Codes: 22K; 23Q; 23S; 23T; 23V.

AR-1715-0294

Improved Hawk Information Coordination Central Maintenance

Course Number: *Version 1:* 104-24G10. *Version 2:* 104-24G20. *Version 3:* 104-24G20.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 27-28 weeks (976 hours). *Version 2:* 25 weeks (895 hours). *Version 3:* 21 weeks (692 hours).

Exhibit Dates: *Version 1:* 6/78-Present. *Version 2:* 5/76-5/78. *Version 3:* 1/73-4/76.

Objectives: To train enlisted personnel to maintain the improved continuous-wave acquisition radar and the information coordination central.

Instruction: Lectures and practical exercises in the maintenance of the Hawk information coordination central and the continuous-wave acquisition radar. Topics include missile electronics theory, DC and AC circuits, magnetism, reactive components, vacuum tubes and transistors, test equipment, radar fundamentals, power supplies, and digital computer fundamentals.

Credit Recommendation: *Version 1:* Pending evaluation *Version 2:* In the vocational certificate category, 2 semester hours in transistor electronics, 2 in digital systems, 8 in electronics laboratory (8/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital electronics on the basis of institutional evaluation, 2 in electricity/electronic circuits laboratory (8/77). *Version 3:* In the vocational certificate category, 8 semester hours in electronics, 4 in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics, 2 in electronics laboratory (6/74); in the upper-division baccalaureate category, 1 semseter hour in electronics laboratory (6/74).

Related Occupation Codes: 24G.

AR-1715-0295

Improved Hawk Organizational Maintenance Supervisor

Course Number: 4F-223D.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 46 weeks (1581 hours). *Version 2:* 42 weeks (1432-1441 hours).

Exhibit Dates: *Version 1:* 7/75-Present. *Version 2:* 1/73-6/75.

Objectives: To provide warrant officers and enlisted personnel with the knowledge of the operation, organizational maintenance, and repair of the improved Hawk missile system.

Instruction: Lectures and practical exercises in the maintenance of the Hawk missile system. Course includes basic electronic circuits, radar electronics, fundamental digital computer electronics, and digital computer machine language programming.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in computer fundamentals, 1 in transistor electronics, 6 in electronic troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (8/77). *Version 2:* In the vocational certificate category, 6 semester hours in basic electronics and introductory digital computers (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and introductory digital computers (6/74); in the upper-division baccalaureate category, 1 semester hour in basic electronics and introductory digital computers (6/74).

Related Occupation Codes: 24B; 24C; 24D; 24E; 24F; 24G; 24P; 24Q; 24U; 223D; 223B; 221B; 221C; 222B; 251B.

AR-1715-0296

Signal Officer Advanced (Nonresident/Resident)

Course Number: 4-11-C23 (NR/R).

Location: Signal School, Ft. Gordon, GA.

Length: Resident 8 weeks (288 hours).

Exhibit Dates: 8/72-Present.

Objectives: To prepare officers for branch command and staff duties at battalion through brigade levels.

Instruction: Phases IA, II, IV and VI, completed in residence, cover instruction in general communications electronics subjects, including DC and AC principles, tubes, transmitters, receivers, infrared equipment and radar; tactical communications equipment and signal communications. Phases I, III and V, completed by correspondence, cover instruction in military-related subjects, including leadership, tactics, and procedures and policies.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and communications systems (4/77).

AR-1715-0297

Missile Systems Apprentice

Course Number: 121-27A10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 13 weeks (455 hours).

Exhibit Dates: 2/68-Present.

Objectives: To train enlisted personnel to maintain and repair land combat missile systems and land combat support systems.

Instruction: Lectures and practical exercises in the maintenance and repair of land combat missile systems. Course includes basic electricity, linear and nonlinear devices, inverters, converters, use of electronic test equipment, and basic computer logic and fundamentals.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (6/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (6/74).

Related Occupation Codes: 27A; 27B; 27C; 27D.

AR-1715-0298

1. Lance Missile System Repair
2. Lance Missile System Repair
3. Combat Support Missile System Repair

Course Number: 121-27D20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 8-12 weeks (240-406 hours). *Version 2:* 12-13 weeks (406-433 hours). *Version 3:* 15 weeks (497 hours).

Exhibit Dates: *Version 1:* 4/75-Present. *Version 2:* 6/74-3/75. *Version 3:* 5/73-5/74.

Objectives: To train enlisted personnel to maintain the Lance Missile System.

Instruction: *Version 1:* Lectures and laboratory exercises including basic electricity concepts, AC and DC circuit theory—series, parallel, series-parallel, inductive, capacitive, and LCR circuits; series and parallel resonant circuits; elementary theory of semiconductor devices and circuits including FETs; soldering techniques and practices; troubleshooting and maintenance of Lance test equipment and missile systems. Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will take only Phase II (8 weeks) of this course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (12 weeks). *Version 2:* Lectures and laboratory exercises including basic electricity concepts of power, work, and energy; DC and AC circuit theory—series, parallel, series-parallel, inductive, capacitive, and LCR circuits; series and parallel resonant circuits; transformers and power supplies; elementary theory of semiconductor devices and circuits including FETs; soldering techniques and practices; troubleshooting and maintenance of Lance test equipment and missile systems. *Version 3:* Lectures and practical exercises in the maintenance of the Lance missile system. Course includes basic AC and DC circuits, RLC circuits, transients, resonance, transistor circuits, nonlinear wave shaping, and soldering techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in basic electronics for students who complete 8 weeks of the course or 14 semester hours in basic electronics for students who complete 12 weeks of this course (see NOTE above) (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics for all students (8/77). *Version 2:* In the vocational certificate category, 4 semester hours in basic electronics and troubleshooting (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics and troubleshooting (3/75). *Version 3:* In the vocational certificate category, 8 semester hours in basic electronics (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electronics (6/74).

Related Occupation Codes: 27D.

AR-1715-0299

WIRE GUIDED MISSILE SYSTEM REPAIR

Course Number: 121-27E20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* Self-paced 10–15 weeks (400–480 hours). *Version 2:* 13 weeks (431 hours). *Version 3:* 17 weeks (590 hours).

Exhibit Dates: *Version 1:* 11/74–Present. *Version 2:* 11/72–10/74. *Version 3:* 6/70–10/72.

Objectives: To train personnel as wire guided missile system repairmen.

Instruction: *All Versions:* Lectures and practical exercises in direct and general support maintenance on TOW weapon system trainers, and associated equipment, including missile electronic subjects, TOW weapon system familiarization, multimeter care and use, test equipment, soldering, modulators and demodulators, introduction to logic symbology, threaded inserts, optical sight, traversing unit and launch tube, maintenance of the missile guidance set, shop operations, battery charger, and troubleshooting transistorized circuits. *Version 1:* Electronics subjects include basic electricity concepts of work, energy, and power; DC and AC circuit theory—series, parallel, series-parallel, inductive, capacitive, and LCR circuits; series and parallel resonant circuits; transformers and power supplies; RC and LC transients; soldering techniques and practices; and elementary semiconductor devices and circuits including FET.

Credit Recommendation: *Version 1:* In the vocational certificate category, 7 semester hours in basic electronics and troubleshooting (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics (3/75). *Version 2:* In the vocational certificate category, 8 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electronics laboratory (6/74). *Version 3:* In the vocational certificate category, 12 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (6/74); in the upper-division baccalaureate category, 3 semester hours in electronics laboratory (6/74).

Related Occupation Codes: 27E; 27Z.

AR-1715-0300

RADAR ENGAGEMENT SIMULATOR AN/TPQ-29

(Improved Hawk Guided Missile Simulator Maintenance Maintenance)

Course Number: 121-ASIG6; 121-24E30.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8 weeks (280–295 hours).

Exhibit Dates: 5/73–Present.

Objectives: To train enlisted personnel to operate, adjust, and maintain the Hawk simulator system.

Instruction: Lectures and practical exercises in the maintenance of the Hawk simulator system. Topics include AC and DC control systems, electronic test equipment, basic computer logic, radar fundamentals, and circuit analysis.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics, 4 in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 2 in electronics laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (6/74).

Related Occupation Codes: 24E.

AR-1715-0301

REDEYE WEAPON SYSTEM REPAIR

Course Number: 121-27G20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 9–12 weeks (276–382 hours). *Version 2:* 12 weeks (419 hours).

Exhibit Dates: *Version 1:* 11/76–Present. *Version 2:* 12/71–10/76.

Objectives: To provide enlisted and civilian personnel with the capability to inspect, test and perform support maintenance on the Redeye weapon system.

Instruction: *All Versions:* Lectures and practical exercises in electronic fabrication techniques (including soldering), AC/DC circuits, solid state electronics, power supplies, and introduction to digital techniques. *Version 1:* Version 1 includes resonant circuits. Note: Students who have completed Modules 201 and 202 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (9 weeks) of the course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (12 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in basic electronics for students who complete 9 weeks of the course or 12 semester hours in basic electronics for students who complete 12 weeks of the course (see NOTE above) (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics for all students (8/77). *Version 2:* In the vocational certificate category, 10 semester hours in basic electronics (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in basic electronics (6/74).

Related Occupation Codes: 27G.

AR-1715-0302

SERGEANT MISSILE GUIDANCE REPAIR

Course Number: *Version 1:* 121-21S20. *Version 2:* 122-21S20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 16 weeks (546 hours). *Version 2:* 19 weeks (673–679 hours).

Exhibit Dates: *Version 1:* 11/72–Present. *Version 2:* 1/67–10/72.

Objectives: To train enlisted personnel to operate and maintain the Sergeant missile system.

Instruction: Lectures and practical exercises in Sergeant missile system operation and maintenance, including AC and DC circuits, multimeters, soldering techniques, RLC circuits, transistors, nonlinear wave shaping, differentiation and integration, series resonance, power supplies, control panel self-test, missile handling equipment, missile trainer maintenance, and field maintenance test station.

Credit Recommendation: *Version 1:* In the vocational certificate category, 10 semester hours in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electronics laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (6/74). *Version 2:* In the vocational certificate category, 10 semester hours in electricity or electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (6/74).

Related Occupation Codes: 21S.

AR-1715-0303

SHILLELAGH MISSILE SYSTEM REPAIR

Course Number: 121-27H20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 12–16 weeks (403–495 hours). *Version 2:* 15–16 weeks (501–528 hours). *Version 3:* 15–16 weeks (557 hours).

Exhibit Dates: *Version 1:* 11/76–Present. *Version 2:* 5/73–10/76. *Version 3:* 11/71–4/73.

Objectives: To train enlisted personnel to inspect, test, and maintain Shillelagh missile systems and associated support equipment.

Instruction: *All Versions:* Lectures and practical exercises in basic electricity, linear and nonlinear devices, power supplies, basic computer fundamentals, control systems, instructor control unit maintenance, test and check-out panel maintenance, logic analysis, digital computers introduction, missile soldering procedures, launch vehicle maintenance, and human self-development. *Version 1:* Note: Students who have completed Modules 201 and 202 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (12 weeks) of this course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (16 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 10 semester hours in basic electronics for students who complete 12 weeks of the course or 14 semester hours in basic electronics for students who complete 16 weeks of the course (8/77). *Version 2:* In the vocational certificate category, 12 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (6/74). *Version 3:* In the vocational certificate category, 12 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (6/74).

Related Occupation Codes: 27H; 27Z.

AR-1715-0304

NIKE HERCULES FIRE CONTROL SYSTEM MAINTENANCE TRANSITION

Course Number: 44-N-226.1; 44-N-1178T; 44-OE-30(T); 44-N-226.1T; 44-N-F5.

Location: Air Defense School, Ft. Bliss, TX.

Length: 9–12 weeks (315–461 hours).

Exhibit Dates: 7/57–12/68.

Objectives: To train Nike Ajax fire control crewmen to operate, adjust, and maintain Nike Hercules fire control systems.

Instruction: Lectures and practical exercises in Nike Hercules fire control systems, including tracking radar circuits, analog computer control systems, inertial guidance sensing equipment, and maintenance and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics and electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and electrical laboratory (6/74); in the upper-division baccalaureate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (6/74).

Related Occupation Codes: 222B; 251B.

AR-1715-0305

Nike System Maintenance Officer Transition

(SAM Staff Officer Transition (Hercules))

Course Number: 44-A-F9.

Location: Air Defense School, Ft. Bliss, TX.

Length: 14–21 weeks (505–786 hours).

Exhibit Dates: 8/57–12/68.

Objectives: To train officers with technical backgrounds to operate and maintain Hercules missile systems.

Instruction: Lectures and practical exercises in Hercules missile systems operation and maintenance, including radar and missile systems special electronic circuits; block-diagram and system analysis; and missile systems test equipment, launcher area warhead, computer, and guidance set.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in applied electronics (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74).

AR-1715-0306

Combat Missile Maintenance (27-CMF) Noncommissioned Officer (NCO) Basic

(Field Artillery Missile (FM-CMF) Noncommissioned Officer (NCO) Basic)

Course Number: 1-272-C40; 1-FM-C40A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 8–12 weeks (260–394 hours).

Exhibit Dates: 6/73–Present.

Objectives: To qualify enlisted personnel as senior noncommissioned officers in field artillery missile maintenance.

Instruction: Lectures and practical exercises in the duties of senior noncommissioned officers and in the maintenance and operation of field artillery missiles. Course includes test equipment repair, computer fundamentals, power supplies, and specialized missile components and subsystems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics, 4 in electronic laboratory (9/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics, 2 in electronics laboratory (9/77); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (9/77).

Related Occupation Codes: 21L; 21R; 21S; 21T; 27B; 27D; 27E; 27F; 27G; 27H; 46L; 46N.

AR-1715-0307

Improved Hawk Firing Section Maintenance

Course Number: 121-24C10; 121-24C20.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 19 weeks (672 hours). *Version 2:* 22–23 weeks (784–822 hours). *Version 3:* 22 weeks (764–773 hours).

Exhibit Dates: *Version 1:* 7/79–Present. *Version 2:* 3/75–6/79. *Version 3:* 1/73–2/75.

Objectives: To train enlisted personnel to maintain improved Hawk missile systems.

Instruction: *All Versions:* Lectures and practical exercises in maintenance of improved Hawk missile systems, with special emphasis on the high-power illuminator radar. Course includes instruction in basic electricity (DC & AC circuits), linear and nonlinear devices, test equipment, radar principles, troubleshooting, and circuit analysis. *Version 2:* Topics include troubleshooting regulated power supplies, low frequency amplifiers, and fundamentals of high powered illuminator radar.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 6 semester hours in electronics (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/75). *Version 3:* In the vocational certificate category, 10 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74).

Related Occupation Codes: 24C; 09B.

AR-1715-0308

Nike Universal Officer

(Nike Universal Officer Qualification)
(Officer Qualification, Nike Ajax)

Course Number: 44-A-F4; 44-O-42.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8–10 weeks (368–440 hours).

Exhibit Dates: 3/57–8/63.

Objectives: To train artillery officers in Nike Hercules Universal system materiel and tactics.

Instruction: Lectures and practical exercises in Nike Hercules Universal system materiel and tactics, including basic electronics, missile track radars and radar command systems, guided missile system employment techniques, computer functioning, prelaunch, electronic countermeasures, tactical control system, operational readiness inspections, maintenance safety concepts, weapons handling air defense operations, warhead tests and corrective procedures, and air-space utilization.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (6/74).

AR-1715-0309

Redstone Officer

Course Number: 6-A-1190B.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 7–9 weeks (287–361 hours).

Exhibit Dates: 6/57–11/58.

Objectives: To train artillery officers as surface-to-surface missile unit commanders.

Instruction: Lectures and practical exercises on the characteristics, operating principles, capabilities, and limitations of the Redstone missile and associated equipment, including artillery transport, communications and electronics, basic electricity, missile electrical fundamentals, gunnery, materiel, Redstone introduction and warhead installation, target acquisition, and tactics and combined arms.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity and electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electrical laboratory (6/74); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (6/74).

AR-1715-0310

Nike Ajax Officer Qualification (Reserve Component)

Course Number: 44-A-F24.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8 weeks (263–277 hours).

Exhibit Dates: 2/60–12/68.

Objectives: To train officers in Nike Ajax missile system operation.

Instruction: Lectures and practical exercises in Nike Ajax missile system operation, including basic electricity, electronics, radar systems, block-diagram analysis, launching area equipment and assembly area operations, integrated battery operations, air defense operations and tactics, and battery control area equipment.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical or electronics laboratory for non-electrical-engineering majors (6/74).

AR-1715-0311

Missile Master Systems Management Officers

Course Number: 11-A-F14; 11-B-F14.

Location: Air Defense School, Ft. Bliss, TX; Signal Fire Distribution Systems Training Activity, Ft. Bliss, TX.

Length: 12 weeks (421–434 hours).

Exhibit Dates: 6/61–12/68.

Objectives: To train commissioned officers to operate and maintain the AN/FSG-1 air defense system and to supervise maintenance personnel.

Instruction: Lectures and practical exercises in AN/FSG-1 air defense system operation and maintenance, including radar display equipment fundamentals, computer principles, circuit tracing, data link transmission and reception, power equipment, analog-to-digital converter, performance testing, test equipment, equipment adjustments and checks, SAGE integration equipment, and system management.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74).

AR-1715-0312

Ballistic Missile Inertial Guidance and Control Repair (Sergeant)

Course Number: 9-S-373.1; 9-S-F26.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 23–29 weeks (854–1049 hours).

Exhibit Dates: 3/61–12/68.

Objectives: To train military and civilian personnel to inspect, test, and repair electronic assemblies of the Sergeant missile and firing set.

Instruction: Lectures and practical exercises in AC and DC circuits, motors, generators, linear and nonlinear devices, inertial guidance principles, stabilization systems, power systems, digital techniques, test equipment, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electricity and electronics or electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electronics laboratory (6/74).

AR-1715-0313

Hawk Internal Guidance and Launcher Electronics Repair

Course Number: 9-S-257.1.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 25 weeks (917 hours). *Version 2:* 15 weeks (538–548 hours).

Exhibit Dates: *Version 1:* 2/63–12/68. *Version 2:* 4/59–1/63.

Objectives: To train enlisted personnel to inspect, test, maintain, and repair Hawk internal guidance and launcher electronics systems and associated test equipment.

Instruction: *All Versions:* Lectures and practical exercises in the inspection, testing, maintenance, and repair of Hawk internal guidance and launcher electronics systems and associated test equipment, including principles of Hawk guidance, basic electricity, test equipment, antenna control and autopilot systems, launcher system, hydraulics, various circuits, speedgate system, and power system and supplies. *Version 1:* Includes special electronic circuits, transmitter and receiver analysis, mathematics, counterinsurgency, amplifiers and oscillators, multivibrators, and motors and generators. *Version 2:* Includes nuclear warfare instruction and equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 12 semester hours in electronics, 6 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (6/74). *Version 2:* In the vocational certificate category, 8 semester hours in electronics, 4 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics, 2 in electrical laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74).

AR-1715-0314

Lacrosse Fire Control System Maintenance

Course Number: 6-N-217.1.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 24 weeks (847 hours). *Version 2:* 7 weeks (274 hours).

Exhibit Dates: *Version 1:* 11/60–12/68. *Version 2:* 10/59–10/60.

Objectives: To train warrant officers and enlisted personnel with previous technical experience to perform as Lacrosse field artillery missile fire control mechanics.

Instruction: *All Versions:* Lectures and practical exercises in adjustment and maintenance of Lacrosse ground guidance equipment, including target acquisition, power supplies, angular tracker and test set, calibration of missile tracking antenna, range indicator, interrogator set and precision test transponder, guidance computer, target ranging and measuring equipment, and guidance system. *Version 2:* Topics include fundamentals of electricity and electronics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in electricity and electronics (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics (6/74). *Version 2:* In the vocational certificate category, 4 semester hours in electronics and electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics and electrical laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in electronics and electrical laboratory (6/74).

AR-1715-0315

1. Air Defense Missile Staff Officer (Nike Hercules)
   (Surface-to-Air Missile Staff Officer)
2. Nike System Maintenance Officer
3. Surface-to-Air Missile Staff Officer (Nike)
   (SAM Maintenance)
4. SAM Maintenance

Course Number: *Version 1:* 2G-1177; 44-A-1177. *Version 2:* 44-A-1177. *Version 3:* 44-A-1177. *Version 4:* 44-O-40.

Location: *Version 1:* Air Defense School, Ft. Bliss, TX. *Version 2:* Air Defense School, Ft. Bliss, TX. *Version 3:* Air Defense School, Ft. Bliss, TX. *Version 4:* Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 18–19 weeks (637–677 hours). *Version 2:* 42 weeks (1555–1578 hours). *Version 3:* 42–45 weeks (1566–1741 hours). *Version 4:* 49 weeks (1900 hours).

Exhibit Dates: *Version 1:* 5/63–Present. *Version 2:* 9/60–4/63. *Version 3:* 6/58–8/60. *Version 4:* 1/57–5/58.

Objectives: To train officers to be maintenance/staff officers of Nike surface-to-air missile battalions.

Instruction: Lectures and practical exercises in basic electrical and electronic circuits, theory, and block-diagram analysis of radar and missile systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for non-electrical engineering majors (6/74). *Version 2:* In the vocational certificate category, 8 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory for non-electrical engineering majors, or 2 in electronics laboratory for electrical engineering majors (6/74). *Version 3:* In the vocational certificate category, 8 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory for non-electrical engineering majors, or 2 in electronics laboratory for electrical engineering majors (6/74). *Version 4:* In the vocational certificate category, 8 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory for non-electrical engineering majors, or 2 in electronics laboratory for electrical engineering majors (6/74).

AR-1715-0316

1. Biomedical Equipment Maintenance
2. Biomedical Equipment Maintenance
3. Medical Equipment Maintenance (Basic)

Course Number: *All Versions:* 4B-F2. *Version 1:* 198-35G10. *Version 2:* 198-35G20. *Version 3:* 198-35G20; 198-208.1.

Location: *Version 1:* Medical Equipment and Optical School, Denver, CO. *Version 2:* Medical Optical and Maintenance Agency, Denver, CO; Fitzsimmons General Hospital, Denver, CO.

Length: *Version 1:* 15 weeks (526 hours). *Version 2:* 19 weeks (625–655 hours). *Version 3:* 10–13 weeks (359–455 hours).

Exhibit Dates: *Version 1:* 1/79–Present. *Version 2:* 9/73–12/78. *Version 3:* 7/60–8/73.

Objectives: To train warrant officers and enlisted personnel to install, inspect, maintain, repair, calibrate and adjust mechanical and electromechanical medical equipment.

Instruction: *Version 1:* Lectures and practical exercises in DC series, parallel and series-parallel circuits. AC waveform nomenclature and fundamental concepts of capacitance, inductance, magnetism relays, motors, diodes and transmitters are presented. Emphasis is given to the presentation of medical equipment theory of operation, maintenance and troubleshooting techniques for dental equipment (not x-ray equipment), sterilizers and pulmonary equipment. *Version 2:* Lectures and practical exercises in installation, inspection, maintenance, repair, calibration and adjustment of mechanical and electromechanical medical equipment (excepting electronic components), including basic electricity, maintenance management and special techniques, insurgency and counterinsurgency, character guidance, command information, medical terminology, anatomy and physiology, and human relations. *Version 3:* Lectures and practical exercises in installation, inspection maintenance, repair, calibration and adjustment of mechanical and electromechanical medical equipment (excepting electronic components), including base electricity, maintenance management and special techniques, insurgency and counterinsurgency, character guidance, command information, medical terminology, anatomy and physiology, and human relations.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in AC and DC circuit fundamentals, 9 in medical equipment, theory of operation and troubleshooting (10/79) *Version 2:* In the vocational certificate category, 4 semester hours in DC and AC circuit fundamentals, 8 in medical equipment maintenance, 1 in anatomy and physiology (10/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in human relations (10/75). *Version 3:* In the vocational certificate category, 3 semester hours in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (7/74).

Related Occupation Codes: 35G; 35S; 35T; 202A.

AR-1715-0317

1. Biomedical Electronic Equipment Maintenance
2. Biomedical Equipment Maintenance (Advanced)
3. Medical Equipment Maintenance (Advanced)

Course Number: *Version 1:* 4B-202A; 198-35S20. *Version 2:* 4B-202A; 198-35G30. *Version 3:* 8-N-202A; 8-N-208.2.

Location: *Version 1:* Medical Equipment and Optical School, Denver, CO. *Version 2:* Medical Optical and Maintenance Agency, Denver, CO. *Version 3:* Fitzsimons General Hospital, Denver, CO.

Length: *Version 1:* 40 weeks (1249–1255 hours). *Version 2:* 35 weeks (1206 hours). *Version 3:* 30 weeks (991 hours).

Exhibit Dates: *Version 1:* 9/73–Present. *Version 2:* 1/71–8/73. *Version 3:* 1/65–12/70.

Objectives: To train warrant officers to perform as medical equipment repair technicians and enlisted personnel to perform as medical equipment repairmen.

Instruction: *All Versions:* Lectures and practical exercises in installation, inspection, maintenance, repair, calibration, and adjustment of selected electrical and electronically controlled or operated medical equipment, including electricity and electronics and maintenance management. *Version 1:* Topics include fundamentals of DC and AC circuits, vacuum tubes, and solid-state electronics devices; principles of operation and maintenance of clinical laboratory and medical instrumentation, including related topics in physics; general- and biochemistry; and technical writing. *Version 2:* Topics include electron tubes and circuits, solid-state devices, biophysical measurements, biomedical electronic instrumentation and instruments, problem solving, and communication and technical report writing. *Version 3:* Topics include biomedical x-ray equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in DC and AC circuits, 2 in applied physics, 6 in electronics, 1 in technical writing, 1 in medical instrumentation, 3 in general- and biochemistry, 4 in medical instrumentation maintenance, and 5 in clinical laboratory instrument maintenance (10/75). *Version 2:* In the vocational certificate category, 10 semester hours in electricity or electronics (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (7/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (7/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (7/74).

Related Occupation Codes: 35G; 35S; 202A.

AR-1715-0318

Radioteletypewriter Repair

Course Number: 11-E-17.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 22 weeks (880 hours).

Exhibit Dates: 5/54–12/68.

Objectives: To train enlisted personnel as radioteletypewriter repairmen.

Instruction: Lectures and practical exercises in installation, repair, and depot maintenance of mobile or fixed single-channel radioteletypewriter transmitting and receiving equipment, including principles of electricity, tuned circuits, radio, electron tubes, power supplies and amplifiers, oscillators, transmitters and antennas, detectors and receivers, basic shop, amplitude modulation, fixed-station fundamentals, receiving equipment, field radioteletypewriter equipment, and integrated field training.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity and electronics (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68).

AR-1715-0319

1. Signal Officer Advanced (Core Phase)
2. Signal Officer Advanced
3. Signal Officer Advanced
4. Signal Officer Career
5. Signal Officer Career (Signal Officer Advanced)

Course Number: *Version 1:* 4-11-C22. *Version 2:* 4-11-C22. *Version 3:* 4-11-C22. *Version 4:* 4-11-C22; 11-A-C22. *Version 5:* 11-A-C22; 11-A-C4; 11-O-3.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Southeastern Signal School, Ft. Gordon, GA. *Version 3:* Signal School, Ft. Monmouth, NJ. *Version 4:* Signal School, Ft. Monmouth, NJ. *Version 5:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 12 weeks (395 hours). *Version 2:* 39 weeks (1233 hours). *Version 3:* 39 weeks (1209 hours). *Version 4:* 30 weeks (950–966 hours). *Version 5:* 35–36 weeks (1103–1512 hours).

Exhibit Dates: *Version 1:* 12/76–Present. *Version 2:* 7/73–11/76. *Version 3:* 4/70–6/73. *Version 4:* 9/64–3/70. *Version 5:* 10/53–8/64.

Objectives: To train Signal Corps officers for command and staff duties at battalion through brigade levels in divisional nondivisional units.

Instruction: *All Versions:* Lectures and practical exercises in the technical aspects of radio and telephone digital communications, communications arts, and general management. *Version 1:* Students attend the 12 week core program, then branch off into specialized training, attending one of the following: Combat-Electronics Material Management Advanced (4B-0A72), Combat Communications Electronics Advanced (4C-0A25), or Fixed Telecommunications Systems Advanced (4C-0A26). See individual exhibits for credit recommendations. *Version 2:* Instruction includes introduction to computers. *Version 3:* Instruction includes introduction to computers. *Version 4:* Instruction includes introduction to computers.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic introduction to computers (4/77). *Version 2:* In the vocational certificate category, 12 semester hours in introduction to computers and general business (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as a nontechnical elective in computers, 5 as an elective in general business (7/74); in the upper-division baccalaureate category, 3 semester hours as a nontechnical elective in introduction to computers, 2 as a technical elective in general business, and additional credit in general business on the basis of institutional evaluation (7/74). *Version 3:* In the vocational certificate category, 12 semester hours in general business and introduction to computers (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as a nontechnical elective in introduction to computers, 5 as an elective in general business (7/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management and credit in electronics and communications engineering on the basis of institutional evaluation (12/68). *Version 4:* In the vocational certificate category, 7 semester hours in general business and introduction to computers (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as a nontechnical elective in introduction to computers, 3 as a technical elective in general business (7/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management and credit in communications engineering on the basis of institutional evaluation (12/68). *Version 5:* In the vocational certificate category, 2 semester hours in general business and introduction to computers and additional credit in general business and introduction to computers on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in general business and introduction to computers and additional credit in general business and introduction to computers on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management and credit in electronics and communications engineering on the basis of institutional evaluation (12/68).

AR-1715-0320

Aircraft Armament Repair

Course Number: 646-45J20.

Location: *Version 1:* Transportation School, Ft. Eustis, VA. *Version 2:* Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 11–17 weeks (358–559 hours). *Version 2:* 13–17 weeks (419–595 hours). *Version 3:* 17 weeks (657 hours).

Exhibit Dates: *Version 1:* 7/76–Present. *Version 2:* 7/70–6/76. *Version 3:* 4/67–6/70.

Objectives: To train enlisted personnel in aircraft armament maintenance and repair.

Instruction: *All Versions:* Lectures and practical exercises in armament systems, electricity and electronics, hydraulic systems, and solid-state devices. *Version 1:* Note: Students who have completed Modules 201, 202, 203 and 204 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phases II and III (11 weeks). See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete Phases I, II and III (17 weeks) of this course.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in electricity or electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics laboratory (7/74). *Version 3:* In the vocational certificate category, 2 semester hours in electricity, electronics, or electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity, electronics, or electrical laboratory (7/74).

Related Occupation Codes: 45J; 09B.

AR-1715-0321

Electric Motor and Generator Repairman
(Electric Motor and Generator Repair)

Course Number: 5-E-11.

Location: Engineer School, Ft. Belvoir, VA.

Length: 10 weeks (368–400 hours).

Exhibit Dates: 4/55–12/68.

Objectives: To train enlisted personnel to maintain and repair electric motors, dynamotors, motor generators, generators, and allied control and starting equipment.

Instruction: Lectures and practical exercises in the maintenance and repair of electric motors and generators. Topics include basic electricity, DC and AC generators, single- and multi-phase motors, and AC and DC motors.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (7/74).

AR-1715-0322

Fixed Cryptographic Equipment Repair

Course Number: 160-32G10; 160-32G20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2 :* Signal School, Ft. Monmouth, NJ. *Version 3 :* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 29–35 weeks (1080–1303 hours). *Version 2:* 37 weeks (1319 hours). *Version 3:* 24 weeks (896 hours).

Exhibit Dates: *Version 1:* 11/76–Present. *Version 2:* 5/73–10/76. *Version 3:* 12/71–4/73.

Objectives: To train cryptographic equipment repairmen to install, operate, and repair fixed cryptographic equipment.

Instruction: *All Versions:* Lectures and practical exercises in the installation, operation, and repair of fixed cryptographic equipment, including electrical and electronic fundamentals, and teletypewriter security equipment TSEC/KW-26. *Version 1:* Phase I (6 weeks) includes lectures and laboratory experience in electrical fundamentals and repair of semiconductor power supplies, oscillators, and basic logic circuits. Phase II (29 weeks) covers installation, operation and repair of fixed cryptographic equipment, and teletypewriter security equipment. Note: Students who have attended Modules 201, 202, 203, and 7 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (29 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (35 weeks) of this course. *Version 2:* Topics include pulse generator circuitry, logic circuits, security subjects, electronic tactical teletypewriter security equipment TSEC/KW-7, full-duplex electronic key generator TSEC/KG-13, and COMSEC support facility.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electronics laboratory for students completing 29 weeks of the course or 2 semester hours in electricity or electronics and 5 in electricity or electronics laboratory for students completing 35 weeks of the course (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics for students completing either 29 or 35 weeks of the course (see note above) (4/77). *Version 2:* In the vocational certificate category, 8 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical and electronic laboratory for non-electrical-engineering students, 2 as a technical elective for non-electrical-engineering students or 1 in electronic instrumentation laboratory for electrical engineering students (6/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity and electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electrical and electronic laboratory for non-electrical-engineering students, 2 as a technical elective for non-electrical-engineering students, or 1 in electronic instrumentation laboratory for electrical engineering students (6/74).

Related Occupation Codes: 32G; 09B.

AR-1715-0323

Nike Internal Guidance Repair
(Hercules Transition)

Course Number: 9-S-254.1(T).

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 4–5 weeks (140–180 hours).

Exhibit Dates: 10/58–12/68.

Objectives: To provide Nike Ajax internal guidance repairmen with transition training on the Nike Hercules system.

Instruction: Lectures and practical exercises in the inspection, test, and field maintenance of the Nike Hercules internal guidance system, including introduction to Nike Hercules system, internal guidance set and control system, test set group, RF and pulse components, guidance set chassis field maintenance check-out laboratory, detonation control and transistors, automatic pilot control servo and missile harness, RF test set component analysis, and guidance set and complete missile check-out.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (6/74).

AR-1715-0324

Pershing Officer

Course Number: *Version 1:* 2F-13C; 2F-1190P. *Version 2:* 2F-1190P; 2F-1190E; 6-A-1190E.

Location: *Version 1:* Field Artillery School, Ft. Sill, OK. *Version 2:* Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 7–8 weeks (263–295 hours). *Version 2:* 6–8 weeks (222–299 hours).

Exhibit Dates: *Version 1:* 2/72–Present. *Version 2:* 11/62–1/72.

Objectives: To train officers to supervise the maintenance and operation of the Pershing missile system.

Instruction: *All Versions:* Lectures and practical exercises in the supervision of the maintenance and operation of the Pershing missile system, including communications equipment. *Version 1:* Topics include missile assembly and disassembly, and firing section operations. *Version 2:* Topics include inertial guidance and control, nuclear safety, gunnery and launcher familiarization, basic electronics, digital computer fundamentals, firing battery and data computer, ground handling equipment, and testing procedures.

Credit Recommendation: *All Versions:* Credit is not recommended because of the limited technical nature of the course (6/75). *Version 2:* In the vocational certificate category, 4 semester hours in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/74).

AR-1715-0325

Surface-to-Surface Missile (SSM) Officer Basic

Course Number: 44-O-C.

Location: Antiaircraft and Guided Missile School, Ft. Bliss, TX.

Length: 14–16 weeks (504–583 hours).

Exhibit Dates: 9/55–12/68.

Objectives: To train newly commissioned officers to perform as missile officers.

Instruction: Lectures and practical exercises in missile subjects, including motors and generators, basic electronics, communications, mathematics, map reading, guidance and firing procedures, propulsion systems, missile assembly and maintenance, ground handling equipment, gunnery, tactics, combined arms, and administrative procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for non-electrical-engineering majors (6/74).

AR-1715-0326

Ordnance Guided Missile Officer, ADM
(Ordnance Guided Missile Officer, AAGM)

Course Number: 9-A-4802; 9-A-F8; 9-O-68A.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 19–20 weeks (698–741 hours).

Exhibit Dates: 11/56–12/68.

Objectives: To train company grade officers to perform as ordnance guided missile officers.

Instruction: Lectures and practical exercises in the operation, maintenance, test, and check-out of air defense systems and associated equipment, including guided missile fundamentals; alternating current laws, circuitry, and test equipment; computers; principles of conventional missile warheads and nuclear weapons; Hercules acquisition radar; air defense missile systems; Hercules computer; ordnance guided missile and nuclear weapons logistics; GM and NW maintenance and shops; and logistical control procedures and logistical exercises.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical or mechanical systems laboratory, or 1 as an elective in management and administration (6/74).

AR-1715-0327

Surface-to-Surface Missile (SSM) Maintenance

Course Number: 44-O-41.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 31 weeks (1202 hours).

Exhibit Dates: 10/55–12/68.

Objectives: To train artillery officers in the function, operation, characteristics, maintenance, and inspection of guided-missile fire control systems, launching and handling equipment, and on-missile materiel.

Instruction: Lectures and practical exercises in the function, operation, characteristics, maintenance, and inspection of guided-missile fire control systems, launching and handling equipment, and on-missile materiel, including electricity; radar electronics; specific radar, computer and Doppler sets; operational employment of the Corporal fire control system; Corporal missile components and test equipment; missile check-out and firing; missile propulsion system, missile uncrating and assembly, and service area check-out; missile ground handling equipment; SSM gunnery; guided missile atomic warhead materiel orientation; and surface-to-surface missile tactics.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics (6/74).

AR-1715-0328

SSM Mechanical Materiel Maintenance

Course Number: 44-E-39.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 8 weeks (279 hours).

Exhibit Dates: 10/55–12/68.

Objectives: To train enlisted personnel to assemble, install, and maintain SSM mechanical on-missile guidance systems and associated test equipment.

Instruction: Lectures and practical exercises in SSM mechanical on-missile guidance systems and associated test equipment assembly, installation, and maintenance, including basic electricity, test equipment, Corporal missile orientation, missile servicing, and ground handling equipment operation.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74).

AR-1715-0329

Ordnance Guided Missile Company Grade Officer

Course Number: 9-O-68.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 10 weeks (440 hours).

Exhibit Dates: 1/56–12/68.

Objectives: To train commissioned officers who have completed the ordnance officer basic course to perform as ordnance guided missile operations officers.

Instruction: Lectures and practical exercises in general supervision and direction of logistical support required for ordnance guided missile systems, including fundamental missile subjects, SAM systems, SSM systems, electrical and radar fundamentals, Corporal guidance system and computer, logistics, and new guided missile development.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74).

AR-1715-0330

1. Missile Maintenance Officer
2. Missile Maintenance Officer
3. Ordnance Missile Systems Maintenance Officer
   (Ordnance Guided Missile Officer (FAM))
   (Ordnance Guided Missile Officer (FAGM))

Course Number: *Version 1:* 4F-4516. *Version 2:* 4E-4516. *Version 3:* 9-A-4801; 9-A-4802; 9-A-F9; 9-O-68B.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL. *Version 3:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 14–22 weeks (478–774 hours). *Version 2:* 20–21 weeks (689–729 hours). *Version 3:* 19–20 weeks (700–746 hours).

Exhibit Dates: *Version 1:* 5/71–Present. *Version 2:* 1/66–4/71. *Version 3:* 11/56–12/65.

Objectives: To train officers to be missile officers.

Instruction: Lectures and practical exercises in electronic circuit analysis, mechanical and hydraulic systems, block-diagram analysis of missile subsystems, and missile systems familiarization.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74). *Version 2:* In the vocational certificate category, 2 semester hours in business administration or management (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (12/68); in the upper-division baccalaureate category, 3 semester hours in maintenance management (12/68). *Version 3:* In the vocational certificate category, 4 semester hours in business administration or management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74).

AR-1715-0331

Communication Center Operations

Course Number: 11-E-27.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 8 weeks (280 hours).

Exhibit Dates: 12/55–12/68.

Objectives: To train enlisted personnel to receive and process incoming and outgoing messages for transmission by signal communications.

Instruction: Lectures and practical exercises in communication center operations, including introduction to communications; messenger communication; elementary military cryptography; operation with specific converters; operation of specific equipment; message center operations; tape relay procedures; comcenter operations; message flow through a communications center and the duties of personnel; operation characteristics of semiautomatic equipment and the duties of tape relay personnel; and radio procedure headings.

Credit Recommendation: In the vocational certificate category, 2 semester hours in cryptography, and 2 as an elective in electronic communications (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in cryptography, and 2 as an elective in electronic communications (7/74).

AR-1715-0332

Telephone Installation and Repair

Course Number: 11-R-323.1; 11-E-5.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 8 weeks (280–320 hours).

Exhibit Dates: 11/53–12/68.

Objectives: To train enlisted personnel to install, replace, and maintain local and common battery telephones.

Instruction: Lectures and practical exercises in the installation, replacement, and maintenance of local and common battery telephones, including communications introduction, basic telephone principles, substation installation, field telephone installation, electrical test equipment, circuit analysis and basic electricity applicable to telephone equipment, and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity, 2 in communications within electronics programs (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity, 2 in communications within electronics programs (7/74).

AR-1715-0333

Radio Fingerprinting

Course Number: 231-F3.

Location: Security Agency School, Ft. Devens, MA.

Length: 6 weeks (200 hours).

Exhibit Dates: 1/66–Present.

Objectives: To train enlisted personnel in the theories and techniques of radio fingerprinting.

Instruction: Lectures and practical exercises in the theories and techniques of radio fingerprinting, including theory and equipment operation, processing and analysis, records and reports, transmitter characteristics and classification, and film processing.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics or radio theory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics or radio theory (7/74); in the upper-division baccalaureate category, 3 semester hours in electronics or radio theory (7/74).

AR-1715-0334

Basic Avionics Maintenance Officer

Course Number: 4C-F7.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 4 weeks (152–155 hours).

Exhibit Dates: 2/67–Present.

Objectives: To train commissioned and warrant officers in the maintenance procedures for aircraft electronic communication, navigation, stabilization, and identification systems, and associated ground tactical equipment.

Instruction: Lectures and practical exercises in basic avionics maintenance, including introduction to avionics; avionics equipment in light observation and light transport aircraft; avionics equipment in command, transport, and surveillance aircraft; ground communication, navigation, and radar equipment; administrative and supply procedures; and bench repair and airfield facilities operation.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-1715-0335

AVIATION ELECTRONIC EQUIPMENT REPAIR

Course Number: 102-284.2; 11-R-284.2.

Location: Southeastern Signal School, Ft. Gordon, GA

Length: 28 weeks (1040–1045 hours).

Exhibit Dates: 5/62–5/66.

Objectives: To train enlisted personnel in aviation electronic equipment repair.

Instruction: Lectures and practical exercises in the performance of field and depot maintenance on electronic communication, navigation, stabilization, identification, and associated ground equipment, including introduction to communications and avionics, electronic fundamentals, VHF and UHF aircraft communications and command communications equipment, automatic flight communication equipment, field maintenance of avionics equipment, and specific avionics equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity and electronics, 3 in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory or 2 as an elective for non-engineering students (7/74).

AR-1715-0336

AVIONIC COMMUNICATIONS EQUIPMENT REPAIR

Course Number: 102-35L20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA. *Version 3:* Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 14–22 weeks (507–806 hours). *Version 2:* 16–22 weeks (581–804 hours). *Version 3:* 19–22 weeks (702–815 hours).

Exhibit Dates: *Version 1:* 1/77–Present. *Version 2:* 1/75–12/76. *Version 3:* 5/67–12/74.

Objectives: To train technicians to operate and maintain airborne communication equipment.

Instruction: *All Versions:* Lectures and practical exercises in basic electrical and electronic circuit theory, block-diagram analysis of communication systems, and troubleshooting techniques. *Version 1:* Note (1): Students who have completed Modules 201, 202, 203, 4, 5 and 6 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (14 weeks) of this course. Please see AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phase I and II (22 weeks) of this course. *Version 2:* Note (2): Students who have completed Modules 1, 2, 3, and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (16 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (22 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in basic electronics and troubleshooting for students completing 22 weeks of the course (see note (1) above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in communication systems for completion of 14 or 22 weeks of the course (see note (1) above) (4/77). *Version 2:* In the vocational certificate category, 2 semester hours in electronics laboratory for those students completing 16 weeks; or 3 semester hours in basic electricity or electronics and 2 in electronics laboratory for those students completing 22 weeks (see note (2) above) (3/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity or electronics for those students completing 22 weeks; no credit for students completing 16 weeks (see note above) (3/75). *Version 3:* In the vocational certificate category, 4 semester hours in electrical and electronic circuit theory, 3 in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical and electronic circuit theory, 2 in electrical laboratory (7/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (7/74).

Related Occupation Codes: 09B; 35L; 35P.

AR-1715-0337

AVIONIC FLIGHT CONTROL EQUIPMENT REPAIR

Course Number: 102-35N20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA. *Version 3:* Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 12–15 weeks (431–540 hours). *Version 2:* 12–15 weeks (429–538 hours). *Version 3:* 14–18 weeks (512–663 hours).

Exhibit Dates: *Version 1:* 6/76–3/78. *Version 2:* 9/74–5/76. *Version 3:* 4/67–8/74.

Objectives: To train technicians to maintain and repair aircraft control systems.

Instruction: *All Versions:* Lectures and practical exercises in aircraft control systems maintenance and repair, including electrical and electronic circuit theory, control system principles, block diagram analysis, and troubleshooting techniques. *Version 1:* Note (1): Students who have attended Modules 201 and 202 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will attend only Phase II (12 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (15 weeks) of this course. *Version 2:* Note (2): Students who have completed Modules 1 and 2 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (12 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (15 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in troubleshooting procedures for students completing 12 weeks of the course or 2 semester hours in basic electronics and troubleshooting and 2 semester hours in troubleshooting procedures for students completing 15 weeks of the course (see note (1) above) (4/77). *Version 2:* In the vocational certificate category, 3 semester hours in basic electricity or electronics laboratory for those students completing 15 weeks; or 2 semester hours in electronics laboratory for those students completing 12 weeks (see note (2) above) (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity or electronics laboratory for those students completing 15 weeks; no credit for those students completing 12 weeks (see note (2) above) (5/75). *Version 3:* In the vocational certificate category, 2 semester hours in electrical and electronic circuit theory and 3 in electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical and electronic circuit theory and 2 in electronics laboratory (7/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (7/74).

Related Occupation Codes: 09B; 35N; 35P.

AR-1715-0338

AVIONICS MECHANIC

Course Number: 102-35K20.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 14–18 weeks (505–664 hours).

Exhibit Dates: 3/67–Present.

Objectives: To train enlisted personnel to maintain aircraft electronic communication, navigation, stabilization, identification, and associated ground tactical equipment.

Instruction: Lectures and practical exercises in the maintenance of aircraft electronic communication, navigation, stabilization, identification, and associated ground tactical equipment. Course includes block-diagram analysis and troubleshooting techniques for varied aircraft electronic equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electricity or electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics laboratory (7/74).

Related Occupation Codes: 35K; 35P.

AR-1715-0339

LACROSSE ORDNANCE MAINTENANCE SUPERVISION

Course Number: 9-N-4815.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 29 weeks (1061 hours).

Exhibit Dates: 2/58–12/68.

Objectives: To train warrant officers and enlisted personnel to supervise the maintenance of the Lacrosse guided missile system and associated test equipment.

Instruction: Lectures and practical exercises in the maintenance of the Lacrosse guided missile system and associated test equipment, including ordnance service in the field, electromechanical system and ground handling equipment, Lacrosse guidance system operation, missile-borne guidance system circuit analysis and shop set, test equipment maintenance and repair, system analysis, and ordnance guided missile maintenance in the field.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical shop, 1 in shop supervision (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory, 1 in shop supervision (7/74); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68).

AR-1715-0340

Avionic Navigation Equipment Repair

Course Number: 102-35M20.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA. *Version 3:* Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 9–17 weeks (315–614 hours); 9–17 weeks (391–614 hours). *Version 2:* 11–17 weeks (617–626 hours); 11–17 weeks (617–626 hours).

Exhibit Dates: *Version 1:* 6/76–3/78. *Version 2:* 9/74–5/76. *Version 3:* 5/66–8/74.

Objectives: To train technicians to operate and repair electronic navigation equipment.

Instruction: *All Versions:* Lectures and practical exercises in electrical and electronic circuit principles; circuit and block diagram analysis of transmitting and receiving navigation systems; and troubleshooting and maintenance procedures. *Version 1:* Note (1): Students who have attended Modules 201, 202, 203, 4, 5/6 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (9 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (17 weeks) of this course. *Version 2:* Note (2): Students who have completed Modules 1, 2, 3, and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (11 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who do not attend COBET will complete both Phases I and II (17 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in basic electronics and troubleshooting for students completing 17 weeks of the course (see note (1) above) (4/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications laboratory for students completing 9 or 17 weeks of the course (see note (1) above) (4/77). *Version 2:* In the vocational certificate category, 3 semester hours in basic electricity or electronics and 2 in electronics laboratory for those students completing 17 weeks; or 2 semester hours in electronics laboratory for those students completing 11 weeks (see note (2) above) (5/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity or electronics for those students completing 17 weeks; no credit for those students completing 11 weeks (see note (2) above) (5/75). *Version 3:* In the vocational certificate category, 5 semester hours in electrical circuit theory and 3 in electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical circuit theory and 2 in electronics laboratory (7/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (7/74).

Related Occupation Codes: 09B; 35M; 35P.

AR-1715-0341

Conventional/Precise Power Generation

Course Number: 662-52B20; 662-52B30.

Location: Engineer School, Ft. Belvoir, VA.

Length: 9 weeks (342 hours).

Exhibit Dates: 9/67–4/71.

Objectives: To train enlisted personnel in the installation, operation, and organizational maintenance of portable generating equipment, and in precise-power generation.

Instruction: Lectures and practical exercises in conventional- and precise-power generation, including fundamental maintenance, internal-combustion engine maintenance, diesel engine maintenance, electrical fundamentals, conventional generator sets, and precise-power generation.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electrical laboratory and machine theory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in machines laboratory, and additional credit in machines laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 2 semester hours in machines laboratory, and additional credit in machines laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 52B; 52C; 52D.

AR-1715-0342

Navy Broadcast Terminal Operator

Course Number: 102-F32.

Location: Signal School, Ft. Gordon, GA.

Length: 2 weeks (78 hours).

Exhibit Dates: 5/76–3/78.

Objectives: To train Navy personnel in the skills and techniques required to operate, inspect, test, and identify malfunctions to the operation level in specific satellite communications terminals.

Instruction: Instruction in satellite communications terminal operation and function, including RF systems, tracking equipment, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in satellite communications equipment maintenance (4/77).

AR-1715-0343

Overseas ASC UPS Bypass Repair

Course Number: 622-F17.

Location: Signal School, Ft. Gordon, GA.

Length: 6 weeks (205–210 hours).

Exhibit Dates: *Version 1:* 8/78–Present. *Version 2:* 9/76–7/78.

Objectives: To provide general support maintenance on the overseas automatic switching center (ASC) uninterrupted power system.

Instruction: *Version 1:* Instruction in aligning, preventative maintenance and troubleshooting the Bypass Power System including battery charger and inverter. Review of transistor fundamentals, logic, circuits and polyphase theory and oscilloscope operation. *Version 2:* Instruction in the maintenance and operation of a specific switchboard set, a telephone set, and signal converters.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in basic electronics (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting (8/79). *Version 2:* In the vocational certificate category, 3 semester hours in telephone system maintenance (4/77).

Related Occupation Codes: 32E.

AR-1715-0344

Satellite Communications Controller
(SATCOM Controller)

Course Number: 102-F26.

Location: Signal School, Ft. Gordon, GA.

Length: 4 weeks (150 hours).

Exhibit Dates: 6/76–Present.

Objectives: To provide students with a working knowledge of the operation of a satellite communications control system and the basic mathematical computations relating to system operation.

Instruction: Phase I instruction covers satellite system operations, control, subsystem operation and satellite control station management. Phase II covers instruction in basic mathematics, including exponential numbers and logarithms; aspects of satellite systems, including signal techniques, noise, spectrum analysis, transmission problems and related materials.

Credit Recommendation: In the vocational certificate category, 1 semester hour in satellite communications for Phase I and 2 semester hours in satellite communications system operation for Phase II (4/77).

Related Occupation Codes: 26Y; 32D.

AR-1715-0345

Satellite Communications Terminals AN/FSC-78 and AN/FSC-79 Repair
Satellite Communications Terminals AN/FSC-78(V) and AN/FSC-79 Operation and Maintenance Training)

Course Number: 102-F42; 102-F31.

Location: Signal School, Ft. Gordon, GA.

Length: 7–8 weeks (272–295 hours).

Exhibit Dates: 5/76–Present.

Objectives: To provide selected personnel with the knowledge, skills, and techniques required to operate, inspect, test, and perform maintenance calibrations and repairs on specified satellite communications terminals.

Instruction: Instruction in the operation and repair of satellite communications terminals, including RF circuitry, troubleshooting, block-diagram analysis, tracking equipment, and control systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in satellite communications system maintenance (4/77).

Related Occupation Codes: 26Y.

AR-1715-0346

1. Surveillance Photographic Equipment Repair
2. Surveillance Photographic Equipment Repair
3. Surveillance Photographic Equipment Repair
(Combat Surveillance Photographic Equipment Repair)
4. Combat Surveillance Photographic Equipment Repair

Course Number: *All Versions:* 198-41G20. *Version 1:* 198-41G20. *Version 4:* 198-401;311-R-F9.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Huachuca, AZ. *Version 3:* Signal School, Ft. Monmouth, NJ. *Version 4:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 19–29 weeks (632–952 hours). *Version 2:* 24–28 weeks (865–994 hours). *Version 3:* 28–29 weeks (995–1087 hours). *Version 4:* 23–24 weeks (850–896 hours).

Exhibit Dates: *Version 1:* 6/77–Present. *Version 2:* 11/74–5/77. *Version 3:* 10/70–10/74. *Version 4:* 10/60–9/70.

Objectives: To train enlisted personnel to install, operate, and perform support and depot maintenance of combat surveillance photographic equipment.

Instruction: *All Versions:* Lectures and practical exercises in installation, operation, and support and depot maintenance of combat surveillance photographic equipment, including electrical fundamentals, photographic darkroom equipment, photographic surveillance equipment repair, automatic camera control systems, electrical test equipment and specific test sets, and troubleshooting of specific camera system *Version 1:* Some students will complete Basic Electronics Training component which includes basic electronics theory and components, testing equipment, AC/DC circuits, solid state circuits, digital circuits, troubleshooting and technical mathematics, and, for National Guard and reservists, vacuum tube theory and circuits. components. *Version 2:* Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (24 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (28 weeks) of this course. *Version 3:* Includes flasher system troubleshooting and repair. *Version 4:* Includes electronic fundamentals, day aerial and day-night aerial cameras, semiconductor fundamentals, magnetic amplifiers, and repair of recorder-processor-viewers.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in photographic repair, 2 in machine tool operations, and, for students completing Basic Electronics Training component, 3 semester hours in introduction for electronics, 1 in technical mathematics, 2 in AC/DC circuits, 2 in solid state circuits, 2 in troubleshooting techniques, 2 in digital techniques and, for National Guard and reservists, 2 in vacuum tubes (6/79); in the lower-division baccalaureate/associate degree category, 4 semester hours in troubleshooting electronic and industrial control circuits, 2 in optics, 2 in solid state, 3 in electro-mechanical and industrial control circuits, 2 in basic photography, 2 in electronic circuitry, and 2 in instrument repair and, for students completing the Basic Electronics Training component, 3 semester hours in introduction to electronics, 1 in technical mathematics, 2 in AC/DC theory, 2 in solid state circuits, 2 in troubleshooting techniques, 2 in digital circuits and, for National Guard Guard and reservists, 2 in vacuum tube circuits (6/79) *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory for those students completing 28 weeks; no credit for those completing 24 weeks (see note above) (6/75). *Version 3:* In the vocational certificate category, 2 semester hours in photographic repair, 3 in electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in photographic repair, 3 in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in photographic repair, 3 in electronics (6/74). *Version 4:* In the vocational certificate category, 2 semester hours in photographic repair, 3 in electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in photographic repair, 3 in electronics (6/74).

Related Occupation Codes: 41G; 41H.

AR-1715-0347

1. AVIATION ELECTRONIC EQUIPMENT MAINTENANCE
2. ELECTRONIC NAVIGATION EQUIPMENT REPAIR
3. ELECTRONIC NAVIGATION EQUIPMENT REPAIR

Course Number: 0 11-R-284.1.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 19 weeks (698–703 hours). *Version 2:* 32 weeks (1184 hours). *Version 3:* 23 weeks (850 hours).

Exhibit Dates: *Version 1:* 8/62–5/66. *Version 2:* 3/60–7/62. *Version 3:* 3/57–2/60.

Objectives: To train technicians to operate, maintain, and repair airborne electronic equipment.

Instruction: Lectures and practical exercises in airborne electronic equipment operation, maintenance, and repair, including electronic circuit theory, block-diagram analysis, introduction to communications, electron tubes, amplifiers and oscillators, power supplies and transmitters, UHF and VHF aircraft communications equipment, and troubleshooting techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 5 semester hours in electricity or electronics, 4 in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics as a technical elective for non-technical students and 1 in electrical laboratory (7/74). *Version 2:* In the vocational certificate category, 7 semester hours in electricty, 4 in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics as a technical elective for non-technical students and 1 in electrical laboratory (7/74). *Version 3:* In the vocational certificate category, 6 semester hours in electricity or electronics, 4 in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics as a technical elective for non-technical students and 1 in electrical laboratory (7/74).

AR-1715-0348

1. BALLISTIC MISSILE TEST INSTRUMENT REPAIR (REDSTONE)
2. BALLISTIC MISSILE TEST INSTRUMENT REPAIR

Course Number: 9-R-371.2.

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 13 weeks (483 hours). *Version 2:* 14 weeks (528 hours).

Exhibit Dates: *Version 1:* 12/72–12/68. *Version 2:* 5/58–11/62.

Objectives: To train guidance and control repairmen in the operation, trouble diagnosis, and maintenance of Redstone missile guidance and control test instruments.

Instruction: *All Versions:* Lectures and practical exercises in the operation, trouble diagnosis, and maintenance of ballistic missile guidance and control test instruments, including introduction to components test fixtures; components test instruments; guidance computer test fixture; actuator; control computer and inverter test fixture, and relay box, program device, and specific test fixture. *Version 1:* Topics include digital controller and functional units; pulse generators; special amplifiers; performance tests; clippers, clampers, and limiters; and programming. *Version 2:* Topics include multivibrators; triodes and multielement tubes; vacuum tubes, rectifiers, and voltage multipliers; blocking and ringing oscillators; LC and RC oscillators; and RC coupled, audio power, RF, and DC amplifiers.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in electronics laboratory (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (8/74). *Version 2:* In the vocational certificate category, 2 semester hours in electronics laboratory (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68).

AR-1715-0349

PERSHING MISSILE BATTERY

Course Number: *Version 1:* 121-15E20. *Version 2:* 121-15E20; 121-163.1. *Version 3:* 6-R-163;6 6-R-F23.

Location: *Version 1:* Field Artillery School, Ft. Sill, OK. *Version 2:* Artillery and Missile School, Ft. Sill, OK. *Version 3:* Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 7 weeks (263 hours). *Version 2:* 7 weeks (244 hours). *Version 3:* 9 weeks (326–327 hours).

Exhibit Dates: *Version 1:* 2/69–Present. *Version 2:* 3/65–1/69. *Version 3:* 10/62–2/65.

Objectives: To train enlisted personnel in the assembly, check-out, maintenance, and operation of the Pershing missile and associated ground support equipment.

Instruction: *All Versions:* Lectures and practical exercises on the Pershing missile battery, including power-producing equipment, erector-launcher, laying, and warhead section. *Version 1:* Topics include general subjects, firing-battery operations, and fundamentals of internal defense/development operations. *Version 2:* Topics include specific artillery transport, electrical safety and computers, programmer test station, azimuth laying, ground handling equipment, firing-platoon operations, and target acquisition. *Version 3:* Topics include specific artillery transport, communications systems and equipment, basic electricity, theory and functioning of missile, missile fire data computer, automatic guidance sequencing equipment, test and check-out, ground handling equipment, missile handling, battery area, firing-position procedures, azimuth laying, target acquisition, and tactics and combined arms.

Credit Recommendation: *Version 1:* In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (7/74). *Version 2:* In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (7/74). *Version 3:* In the vocational certificate category, 2 semester hours in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (7/74).

Related Occupation Codes: 12E.

AR-1715-0350

Dial Central Office Repair
(Dial Central Office Maintenance)

Course Number: 622-36H20; 11-R-328.1; 11-R-332.1; 11-E-6.

Location: Signal School, Ft. Monmouth, NJ; Signal School, Ft. Gordon, GA.

Length: 19–32 weeks (706–1,200 hours).

Exhibit Dates: 10/54–12/78.

Objectives: To provide the working knowledge required to perform maintenance and repair and to assist in the installation of dial central office telephone exchange equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (7/74); in the upper-division baccalaureate category, credit in electricity or electronics on the basis of institutional evaluation (7/74).

Related Occupation Codes: 36H.

AR-1715-0351

Manual Central Office Repair
(Manual Central Office Maintenance)

Course Number: 622-36G20; 622-327.1; 11-R-327.1; 11-R-331.1; 11-E-4.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 13–15 weeks (473–560 hours).

Exhibit Dates: 11/53–12/78.

Objectives: To train enlisted personnel to install and repair telephones and manual central office exchange equipment.

Instruction: Lectures and practical exercises in the installation and maintenance of telephones and manual central office exchange equipment, including tactical switchboards, mobile multiple-position central offices, outside-circuit testing and equipment maintenance, introduction to communications, principles of electricity, basic telephony, fixed central offices, outside-plant testing, and supply and telephone systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity, 4 in electronic communications (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 4 in electronic communications (7/74).

Related Occupation Codes: 36G.

AR-1715-0352

1. Improved Hawk Launcher and Mechanized Systems Repairer
2. Improved Hawk Launcher and Mechanical Systems Repair
3. Improved Hawk Mechanical Systems Repair
4. Improved Hawk Mechanical Systems Repair

Course Number: *Version 1:* 121-24L10. *Version 2:* 121-24L20. *Version 3:* 121-46D20. *Version 4:* 121-46D20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 30–31 weeks (1039 hours). *Version 2:* 33 weeks (1023 hours). *Version 3:* 24 weeks (820 hours). *Version 4:* 25 weeks (880 hours).

Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 3/77–2/78. *Version 3:* 6/74–2/77. *Version 4:* 12/72–5/74.

Objectives: To train enlisted personnel to inspect, test, and repair the electrical, electro-mechanical, mechanical, hydraulic, and hydro-pneumatic portions of the Improved Hawk Missile System.

Instruction: *Version 1:* Conferences, demonstrations and practical exercises in electronics subjects including DC and AC circuits, resonant circuits, electronic amplifier circuits, advanced circuits and transistor fundamentals; soldering procedures; general missile mechanics; and extensive coverage of the Improved Hawk launcher electronics and electomechanical systems. *Version 2:* Conferences, demonstrations and practical exercises in electronic subjects including DC and AC circuits, resonant circuits, electronic amplifier circuits, advanced circuits and transistor fundamentals; soldering procedures; general missile mechanics; and extensive coverage of the Improved Hawk launcher electronics and electromechanical systems. *Version 3:* Lectures and practical exercises geared to a thorough working knowledge of DC and AC series and parallel resistive circuits, characteristics of inductors and capacitors, principles of transformers, the RL, RC and RLC circuits. Emphasis is on electrical, mechanical, and hydraulic system maintenance, inspection, testing, and repair of the Improved Hawk Missile System and associated test equipment. Version I includes transistor fundamentals. *Version 4:* Lectures and practical exercises geared to a thorough working knowledge of DC and AC series and parallel resistive circuits, characteristics of inductors and capacitors, principles of transformers, the RL, RC and RLC circuits. Emphasis is on electrical, mechanical, and hydraulic system maintenance, inspection, testing, and repair of the Improved Hawk Missile System and associated test equipment. Version includes transistor fundamentals.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in transistor theory, 2 in vacuum tube circuit theory, 4 in hydraulic systems and maintenance and 4 in mechanical systems (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in basic electronics, 6 in hydraulic systems and maintenance and 6 in mechanical systems (8/79). *Version 3:* In the vocational certificate category, 4 semester hours in basic electronics and troubleshooting (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics and troubleshooting (3/75). *Version 4:* In the vocational certificate category, 4 semester hours in electronics, 3 in mechanics, 2 in electricity, and 4 in physics for technicians (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 3 in mechanics, 3 in physics for technicians, and 3 as a technical elective for nonmajors (8/74).

Related Occupation Codes: 46D; 24L; 09B.

AR-1715-0353

1. Sergeant Firing Set Repair
2. Sergeant Firing Set Repair
   (Sergeant Firing Set Repairman)

Course Number: 121-21R20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 18 weeks (614 hours). *Version 2:* 22 weeks (770–777 hours).

Exhibit Dates: *Version 1:* 11/72–Present. *Version 2:* 1/67–10/72.

Objectives: To provide the student with a working knowledge necessary to inspect, test, perform support maintenance, and to isolate and repair malfunctions of the assembly level of a Sergeant missile system.

Instruction: Emphasis is on a general knowledge of the function, operation, and maintenance of a Sergeant missile system. Additional topics include: DC and AC series and parallel resistive circuits; series RL, RC, RLC, and series and parallel resonance; use of the multimeter, impedance calculator, vector diagram, VTVM, and oscilloscope; the characteristics of vacuum tubes, power supplies, class A and AB amplifiers, coupling circuits, voltage regulators, magnetic amplifiers, oscillators, and syncros; and semiconductor devices, power supplies, amplifiers, pulse networks, and servo systems unique to a missile system.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in electricity or electronics (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (8/74). *Version 2:* In the vocational certificate category, 4 semester hours in electricity or electronics (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics and credit in electrical laboratory on the basis of institutional evaluation (12/68).

Related Occupation Codes: 21R.

AR-1715-0354

Calibration Technician and Specialist

Course Number: 4B-252A; 198-35H20.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 40–41 weeks (1309–1519 hours). *Version 2:* 19 weeks (750 hours).

Exhibit Dates: *Version 1:* 12/69–1/78. *Version 2:* 4/66–11/69.

Objectives: To train enlisted personnel and warrant officers to calibrate standards and all test and measuring equipment, and to perform maintenance and repair on secondary reference and secondary transfer calibration standards.

Instruction: *All Versions:* Lectures and laboratories in fundamentals of algebra, trigonometry, DC and AC circuits; use of oscilloscopes and other test instruments; introduction to microwave and associated test equipment; physical standards; calibration operations; and maintenance of tools and equipment; and use of slide rules. *Version 1:* Includes vacuum tube and transistor theory, rectifiers, regulators, amplifiers, transmitters and receivers, wave-shaping pulse and gating circuits, power and attenuation measurements, secondary standards and meter calibrations, electronic instrument calibration and maintenance, bridge calibration, frequency measurement techniques, and reflectometry equipment and techniques.

Credit Recommendation: *Version 1:* In the vocational certificate category, 30 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 2:* In the vocational certificate category, 12 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 21G; 21T; 22G; 22K; 23N; 23Q; 23S; 23T; 23U; 24B; 24F; 24Q; 24U; 25B; 25D; 25G; 25H; 25J; 26B; 26D; 26H; 26L; 26M; 26N; 26P; 26T; 27B; 27D; 31B; 31E; 31J; 31L; 32B; 32C; 32D; 32E; 32F; 32G; 35B; 35D; 35E; 35F; 35H; 35L; 35M; 35N.

AR-1715-0355

Nike Radar and Computer Repairer

(Nike Radar and Computer Repair Repair)

Course Number: *All Versions:* 104-23N20. *Version 5:* 104-F2; 9-S-F47.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL. *Version 3:* Missile and Munitions School, Redstone Arsenal, AL. *Version 4:* Missile and Munitions School, Redstone Arsenal, AL. *Version 5:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: *Version 1:* 43 weeks (1477 hours). *Version 2:* 39 weeks (1286–1363 hours). *Version 3:* 35–39 weeks (1187–1329 hours). *Version 4:* 40 weeks (1374 hours). *Version 5:* 44 weeks (1586–1649 hours).

Exhibit Dates: *Version 1:* 10/79–Present. *Version 2:* 5/78–9/79. *Version 3:* 5/74–4/78. *Version 4:* 10/72–4/74. *Version 5:* 8/64–9/72.

Objectives: To train enlisted personnel to inspect, test, and perform support maintenance on Nike Hercules Lopar, missile-tracking radar, target-ranging radar, computers, SAMCAP, and associated test equipment.

Instruction: *Version 2:* Lectures and laboratories in DC and AC circuits, transient and pulse forming circuits, vacuum tube electronics, amplifiers, oscillators. mixer and detector circuits, and use of tools and Nike system theory, troubleshooting and maintenance procedures. Includes vacuum tube amplifiers, oscillators, voltage regulators, multivibrators, gating circuits, limiters, clamps, phase splitters, and video amplifiers. Microwave theory presented in this course covers frequency and characteristics, antennas, transmission lines, waveguides, modulation klystrons, magnetions, travelling wave tubes and receiver transmitter analysis. Nike specialist training consists of maintenance, repair and troubleshooting of the Nike radar and computer systems. *Version 3:* Lectures and laboratories in DC and AC circuits, transient and pulse-forming circuits, diode and vacuum tube electronics, amplifiers, oscillators, mixer and detector circuits, and use of tools and maintenance procedures. Phase I topics include basic electricity, concepts of work, energy, and power; DC and AC circuit theory—series, parallel, series-parallel, inductive, capacitive and LCR circuits; series and parallel resonant circuits; transformers and power supplies; triodes, biasing circuits, single- and multi-stage amplifiers, and voltage regulator circuits. Phase II topics include a simplified explanation of RC and LC transients and sine-wave oscillators; soldering techniques and practices; empirical description of the operation of vacuum tube pulse circuits; basic microwave procedures related to radar systems; and Nike radar and acquisition computer troubleshooting and repair. Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC, will complete only Phase II (35 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (39 weeks) of this course. *Version 4:* Lectures and laboratories in DC and AC circuits, transient and pulse-forming circuits, diode and vacuum tube electronics, amplifiers, oscillators, mixer and detector circuits, and use of tools and maintanance procedures. Emphasis on microwave circuits, transmission lines, and antennas; more detail on specific radar configurations; and Nike acquisition computer troubleshooting and repair. *Version 5:* Lectures and laboratories in DC and AC circuits, transient and pulse-forming circuits, diode and vacuum tube electronics, amplifiers, oscillators, mixer and detector circuits, and use of tools and maintenance procedures. Emphasis on heterodyne principles, servo systems, and Nike computer troubleshooting and repair.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 24 semester hours in basic electricity, electronics, and troubleshooting for those students completing 39 weeks; 21 semester hours in basic electronics and troubleshooting for those students completing 35 weeks (see note above) (3/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity or electronics for those students completing 39 weeks; no credit for those students completing 35 weeks (see note above) (3/75). *Version 3:* In the vocational certificate category, 1 semester hour in microwave radar, 5 in electronic equipment repair techniques (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in vacuum tube circuits, 1 in microwave theory and 3 in circuits/electronics laboratory (8/79). *Version 4:* In the vocational certificate category, 10 semester hours in circuits or electronics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in circuits or electronics (4/74); in the upper-division baccalaureate category, 4 semester hours in circuits or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). *Version 5:* In the vocational certificate category, 10 semester hours in circuits or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 23N; 252A; 09B.

AR-1715-0356

Nike Maintenance Supervision (Improved Hercules Transition)

(Nike Maintenance Supervision (Hercules Transition))

Course Number: 9-M-251B(TI); 9-N-251B(TI); 9-N-4811(TI); 9-N-4811(T).

Location: Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 14–16 weeks (516–601 hours).

Exhibit Dates: 1/59–12/68.

Objectives: To train qualified Nike Ajax repairmen to supervise the maintenance of Nike Hercules guided missile systems and associated equipment.

Instruction: Lectures and practical exercises in block-diagram description of acquisition and tracking radar systems; introduction to operation of control circuits, receivers, PPI monitors, MTI circuits, and system analysis; evaluation of target presentation system; and location and identification of malfunctions, use of test equipment, and system maintenance on improved Nike Hercules missile systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical techniques (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical techniques, and additional credit in electrical techniques on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AR-1715-0357

Improved Hawk Continuous Wave (CW) Radar Repair Transition

Course Number: 104-24K40-T; 104-24K20-T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 16–17 weeks (510–584 hours). *Version 2:* 18 weeks (633 hours).

Exhibit Dates: *Version 1:* 4/74–Present. *Version 2:* 2/72–3/74.

Objectives: To train Hawk continuous-wave radar repairmen to inspect, test, repair, and maintain the electronic systems of Improved Hawk launchers, continuous-acquisition radar, and continuous-wave, high-power illuminator radars.

Instruction: *Version 1:* Lectures and laboratory exercises including elementary semiconductor devices and circuits; soldering techniques and practices; introduction to computer subsystems, registers, counters, logic operations, memories, I/O, control, and arithmetic units; and troubleshooting and maintenance of electronic systems of Hawk launchers, continuous acquisition radar, continuous wave high power illuminator radar, and associated test equipment. *Version 2:* Lectures and laboratories in semiconductors, printed circuits, transistor electronics, pulse and gating circuits, power supplies, logic circuits and functions, computer control, and arithmetic circuits; binary and octal number systems; isolation and repair of major components of launcher and radar systems, including antennas, controls, servos, and power systems; inspection and testing of transmitter circuits, modulator oscillator assemblies, receivers, and counters; and functional block analysis of signal processors, sequencers, address counters, and logic control units.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in basic electronics (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (8/77). *Version 2:* In the vocational certificate category, 8 semester hours in electronic circuits (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic circuits (4/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 23T; 24K.

AR-1715-0358

Improved Hawk Pulse Radar Repair Transition

Course Number: 104-24J20-T; 104-24J40-T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 8-9 weeks (242-316 hours).

Exhibit Dates: 1/72-Present.

Objectives: To train pulse radar repairmen to maintain and repair the electronic systems in the Improved Hawk pulse acquisition radar and associated equipment and test sets.

Instruction: Lectures and practical exercises in the maintenance and repair of the Improved Hawk pulse acquisition radar and associated equipment and test sets, including introduction to semiconductor diodes, transistors, amplifiers, power supplies, oscillators, nonsinusoidal oscillators, gating circuits, digital multimeter, dual-trace scope, electronic counter, function generator, microwave calibrator, high-frequency console operation, and various receiving systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electronics (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (8/77).

Related Occupation Codes: 23S; 24J.

AR-1715-0359

Radar Display Equipment Repair

Course Number: 4C-F4; 150-363.1; 11-N-363.1.

Location: Air Defense School, Ft. Bliss, TX.

Length: 30 weeks (1040 hours).

Exhibit Dates: 4/64-12/68.

Objectives: To train warrant officers and enlisted personnel who have had previous training in fire distribution system electronics fundamentals, radio electronics, or electronic engineering to maintain missile master equipment within the AN/FSG-1 air defense system.

Instruction: Lectures and practical exercises in the maintenance of missile master (radar display) equipment within the AN/FSG-1 air defense system, including block diagrams of system elements and signal flow, position indicators, sweep generators, deflection and intensity circuits, gate circuits, and amplifiers; display, multiplex, and blanking circuit analysis; tag presentation and auxiliary target tracking; and height determination and tactical display equipment.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of evaluation examination (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

Related Occupation Codes: 223B; 251B.

AR-1715-0360

Field Radio Repair

Course Number: *Version 1:* 101-31E20. *Version 2:* 101-31E20; 11-R-296.1. *Version 3:* 11-E-12.

Location: Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 19-25 weeks (695-918 hours). *Version 2:* 15-23 weeks (547-850 hours). *Version 3:* 25 weeks (926-1000 hours).

Exhibit Dates: *Version 1:* 8/76-Present. *Version 2:* 12/59-7/76. *Version 3:* 3/54-11/59.

Objectives: To train enlisted personnel to maintain field radio and associated equipment.

Instruction: *All Versions:* Lectures and practical exercises in the maintenance of field radio and associated equipment, including introductory communications, radio repair, field radio teletypewriter equipment, radio relay equipment, and general principles and components of AM and FM radio equipment. *Version 1:* Note: Students who have attended Modules 1, 2, 3 and 4 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will attend only Phase II (19 weeks) of this course. See AR-1715-0389 for credit for COBET. Students who have not attended COBET will complete both Phases I and II (25 weeks) of this course.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in basic electronics and troubleshooting for students who complete 25 weeks of the course (see note above) (4/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in communication systems repair for students completing 19 or 25 weeks of the course (see note above) (4/77). *Version 2:* In the vocational certificate category, 3 semester hours in electricity or electronics and 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electricity or electronics (6/74). *Version 3:* In the vocational certificate category, 3 semester hours in electricity or electronics and 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

Related Occupation Codes: 09B; 31B; 31E.

AR-1715-0361

1. Improved Nike Hercules Fire Control System Maintenance
2. Improved Nike Hercules Fire Control System Maintenance
3. Improved Nike Hercules Fire Control System Maintenance
4. Improved Nike Hercules Fire Control System Maintenance
5. Improved Nike Hercules Fire Control System Maintenance
6. Nike-Hercules Fire Control System Maintenance
   (Nike Universal Fire Control System Maintenance)
7. Nike Universal Fire Control System Maintenance

Course Number: *Version 1:* 121-24Q20. *Version 2:* 121-24Q20. *Version 3:* 121-24Q20. *Version 4:* 121-23G20; 4B-222B; 121-226.1. *Version 5:* 44-N-222-B; 44-N-226.1. *Version 6:* 44-N-222-B; 44-N-226;1 44-N-1178B. *Version 7:* 44-N-F10.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 38 weeks (1344-1347 hours). *Version 2:* 37-40 weeks (1352-1427 hours). *Version 3:* 40 weeks (1508 hours). *Version 4:* 40 weeks (1426-1431 hours). *Version 5:* 48 weeks (1727 hours). *Version 6:* 41-44 weeks (1571-1645 hours). *Version 7:* 46 weeks (1781 hours).

Exhibit Dates: *Version 1:* 1/77-Present. *Version 2:* 4/70-12/76. *Version 3:* 5/68-3/70. *Version 4:* 1/66-4/68. *Version 5:* 9/64-12/65. *Version 6:* 5/59-8/64. *Version 7:* 11/57-4/59.

Objectives: To train enlisted personnel to maintain, troubleshoot, and align Improved Nike Hercules fire control systems equipment.

Instruction: *All Versions:* Lectures and practical experience in Nike Hercules fire control systems equipment operation, including schematic reading, circuit symbols identification, signal path tracing, components location, performing checks and adjustments, troubleshooting for faults, target ranging and tracking radars repair, missile tracking radar plotters repair, and missile prelaunch control and computer guidance circuits repair. *Version 1:* Course covers limited theoretical study of circuits with troubleshooting techniques being emphasized. *Version 2:* Instruction includes limited theoretical coverage of circuits—emphasis is on troubleshooting techniques. *Version 3:* Instruction includes basic circuits and electronics, including Ohm's Law for series, parallel, AC and DC circuits; vacuum tube principles; rectifier circuits; amplifiers frequency response and impedance matching; oscillators; modulation systems introduction; and detectors, mixers, superheterodyne receivers, multivibrators, synchros, and servo systems operation. *Version 4:* Instruction includes basic circuits and electronics, including Ohm's Law for series, parallel, AC and DC circuits; vacuum tube principles; rectifier circuits; amplifiers frequency response and impedance matching; oscillators; modulation systems introduction; and detectors, mixers, superheterodyne receivers, multivibrators, synchros, and servo systems operation. *Version 5:* Instruction includes basic circuits and electronics, including Ohm's Law for series, parallel, AC and DC circuits; vacuum tube principles; rectifier circuits; amplifiers frequency response and impedance matching; oscillators; modulation systems introduction; and detectors, mixers, superheterodyne receivers, multivibrators, synchros, and servo systems operation. *Version 6:* Instruction includes basic circuits and electronics, including Ohm's Law for series, parallel, AC and DC circuits; vacuum tube principles; rectifier circuits; amplifiers frequency response and impedance matching; oscillators; modulation systems introduction; and detectors, mixers, superheterodyne receivers, multivibrators, synchros, and servo systems operation. *Version 7:* Instruction includes basic circuits and electronics, including Ohm's Law for series, parallel, AC and DC circuits; vacuum tube principles; rectifier circuits; amplifiers frequency response and impedance matching; oscillators; modulation systems introduction: and detectors, mixers, superheterodyne receivers, multivibrators, synchros, and servo systems operation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electronic circuits and systems (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (8/77). *Version 2:* In the vocational certificate category, 6 semester hours in electronic circuits and systems (2/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory and 3 in control systems (2/75). *Version 3:* In the vocational certificate category, 10 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, credit in electricity, electronics, or electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics for non-electrical engineering majors on the basis of institutional evaluation (4/74). *Version 4:* In the vocational certificate category, 10 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics for non-electrical engineering majors on the basis of institutional evaluation (4/74). *Version 5:* In the vocational certificate category, 10 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics for non-electrical engineering majors on the basis of institutional evaluation (4/74). *Version 6:* In the vocational certificate category, 10 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics for non-electrical engineering majors on the basis of institutional evaluation (4/74). *Version 7:* In the vocational certificate category, 10 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics for non-electrical engineering majors on the basis of institutional evaluation (4/74).

Related Occupation Codes: 24Q; 09B.

AR-1715-0362

1. Field Artillery Radar Maintenance
2. Weapons Support Radar Maintenance and Repair

Course Number: *Version 1:* 104-26B20/30-COBET. *Version 2:* 104-26B20; 104-26B30.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* Phase I 8 weeks, Phase II(B20/B2T)12–13 weeks, Phase III(B30/B3T)5–9 weeks (Ft. Sill, OK hours). *Version 2:* 22 weeks (770 hours).

Exhibit Dates: *Version 1:* 1/77–5/79. *Version 2:* 12/73–12/76.

Objectives: To provide enlisted personnel with a working knowledge of electricity and electronics fundamentals and the knowledge to operate, adjust, inspect, and maintain weapons support radar equipment.

Instruction: *All Versions:* Lectures and practical exercises in fundamentals of AC/DC circuits; electron theory; tube and transistor amplifiers and oscillators; antenna alignment; communication circuits; and oscillators, multivibrators, and associated test equipment including scopes and meters. *Version 1:* Phase II and III emphasize diagnostic testing and repair of field artillery radar units.

Credit Recommendation: *Version 1:* In the vocational certificate category, For those students completing Phase II (B20), 3 semester hours in electronics and laboratory; for those completing the add-on B2T, 4 semester hours in electronics and laboratory (1/80); in the lower-division baccalaureate/associate degree category, for those students completing phase II (B20) 2 semester hours in electronics and laboratory; for those completing B2T, 3 semester hours in electronics and laboratory and for those students completing Phase III, 3 semester hours in electronics and laboratory (2/80). NOTE: Refer to exhibit AR-1715-0389 for our credit recommendation for Phase I. *Version 2:* In the vocational certificate category, 10 semester hours in electronics and electronics laboratory (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and electronics laboratory (6/75); in the upper-division baccalaureate category, 3 semester hours in electronics and electronics laboratory on the basis of institutional evaluation (6/75).

AR-1715-0363

Automatic Data Processing (ADP) Repair, Phase VIII—Automatic Central Office Repair

Course Number: 150-34D20 (Phase VIII).

Location: Signal School, Ft. Gordon, GA.

Length: 19 weeks (698 hours).

Exhibit Dates: 10/74–8/76.

Objectives: To train personnel to maintain the automatic telephone central office.

Instruction: Instruction in the operation and maintenance of automatic telephone central office equipment, including operational program loading, memory units, central processor, input and output assemblies, power supplies, and peripheral equipment maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic maintenance and 1 in telecommunications laboratory (5/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in computer operation laboratory (5/75).

Related Occupation Codes: 34D.

AR-1715-0364

AN/TTC-38(V) Automatic Central Office Supervisor

Course Number: 580-F3.

Location: Signal School, Ft. Gordon, GA.

Length: 5 weeks (163 hours).

Exhibit Dates: 1/75–Present.

Objectives: To train personnel to plan, supervise, coordinate, and assist in the installation, operation, and maintenance of a central office communication system.

Instruction: Topics include equipment power requirements, preparation of operational plans, inspection of installations and operational procedures, and general system practices.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (5/75).

Related Occupation Codes: 31Z.

AR-1715-0365

Automatic Central Office AN/TTC-25 Repair

Course Number: 150-F5.

Location: Signal School, Ft. Gordon, GA.

Length: 7 weeks (255 hours).

Exhibit Dates: 2/75–8/76.

Objectives: To provide personnel with the knowledge to install and maintain a specific automatic central office.

Instruction: Lectures on the basic operation of the specified equipment set.

Credit Recommendation: In the vocational certificate category, 1 semester hour in telecommunications laboratory (5/75).

Related Occupation Codes: 34D.

AR-1715-0366

Nuclear Weapons Technician (Phase I for Warrant Officers)

Course Number: 4E-260A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 22–29 weeks (766–1005 hours).

Exhibit Dates: 7/74–Present.

Objectives: To provide the technical skills necessary for a supervisory position in nuclear weapons system maintenance.

Instruction: Lectures and practical exercises in nuclear weapons subjects and safety practices; basic electricity; inductive, capacitive, and LCR circuits; transformers and power supplies; triodes, biasing circuits, single- and multi-stage amplifiers, and voltage regulator circuits; simplified coverage of RC and LC transients and sine-wave oscillators; elementary theory of semiconductor devices and circuits; three-phase AC; schmitt triggers and control circuits; and troubleshooting and maintenance of general and specialized test equipment and electronic systems associated with nuclear weapons.

Credit Recommendation: In the vocational certificate category, 9 semester hours in basic electronics and troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics and troubleshooting (8/77).

AR-1715-0367

Nuclear Weapons Technician (Phase II for Enlisted Personnel Qualified in MOS 55G/261A)

Course Number: 4E-260A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 16–19 weeks (555–672 hours).

Exhibit Dates: 7/74–Present.

Objectives: To provide the technical skills necessary for a supervisory position in nuclear weapons system maintenance.

Instruction: Lectures and practical exercises in nuclear weapons systems, inductive, capacitive, and LCR circuits; transformers and power supplies; triodes, biasing circuits, single- and multi-stage amplifiers, and voltage regulator circuits; simplified coverage of RC and LC transients and sine-wave oscillators; elementary theory of semiconductor devices and circuits; three-phase AC; schmitt triggers and control circuits; and troubleshooting and maintenance of general and specialized test equipment and electronic systems associated with nuclear weapons.

Credit Recommendation: In the vocational certificate category, 9 semester hours in basic electronics and troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics and troubleshooting (8/77).

Related Occupation Codes: 260A.

AR-1715-0368

Nuclear Weapons Technician (Phase III for Enlisted Personnel Qualified in MOS 35F/262A)

Course Number: 4E-260A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 10–11 weeks (350–358 hours).

Exhibit Dates: 7/74–Present.

Objectives: To provide the technical skills necessary for a supervisory position in nuclear weapons system maintenance.

Instruction: Instruction covers specialized mechanical projectile subjects.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/77).

AR-1715-0369

Nike Missile-Launcher Repair Transition

Course Number: 121-22N20-T; 121-22N40-T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 13 weeks (357–423 hours).

Exhibit Dates: 10/74–Present.

Objectives: To train qualified personnel to inspect, test, and repair the Nike-Hercules missile and associated test equipment.

Instruction: Instruction includes simplified coverage of RC and LC transients and sine-wave oscillators; empirical description of vacuum-tube pulse circuits; troubleshooting and maintenance of Nike-Hercules missile electronic and hydraulic circuits and associated test equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic electronics and troubleshooting (3/75).

Related Occupation Codes: 22G; 22N; 23W.

AR-1715-0370

NIKE RADAR AND COMPUTER REPAIR

Course Number: 104-F13.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4 weeks (115 hours).

Exhibit Dates: 10/73–Present.

Objectives: To provide training in the function, operation, and maintenance of specific computer and radar equipment.

Instruction: Lectures and laboratories in systems maintenance for a specialized modification of the Nike-Hercules system.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (3/75).

Related Occupation Codes: 23N.

AR-1715-0371

PERSHING ELECTRONIC REPAIR TRANSITION

Course Number: 121-21L20-T; 121-21L40-T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 10 weeks (343 hours).

Exhibit Dates: 12/73–Present.

Objectives: To train personnel to troubleshoot and maintain guidance and control assemblies of Pershing missile and ground support equipment.

Instruction: Lectures and laboratory exercises in maintenance and repair of computer support equipment including I/O interfaces, guidance computer, and main control computer for Pershing ground control equipment.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronic computer maintenance (3/75).

Related Occupation Codes: 21L; 21M.

AR-1715-0372

IMPROVED HAWK INFORMATION COORDINATION CENTRAL MAINTENANCE (TRANSITION)

Course Number: 104-24G40-T.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 19 weeks (665–698 hours). *Version 2:* 16 weeks (558–567 hours).

Exhibit Dates: *Version 1:* 11/75–Present. *Version 2:* 10/73–10/75.

Objectives: To provide enlisted personnel with a knowledge of organizational maintenance on the continuous-wave acquisition radar and missile launch control information processor system.

Instruction: Instruction includes transistor circuit fundamentals; digital system hardware and software fundamentals including general purpose computer usage; operation and troubleshooting of continuous-wave radar and missile launch control information processor system.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in transistor electronics, 3 in introduction to digital systems, 3 in electronics laboratory (8/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics on the basis of institutional evaluation 1 in digital electronics laboratory (8/77). *Version 2:* In the vocational certificate category, 3 semester hours in electronic systems maintenance, 3 in electronics laboratory, and 3 in introduction to digital systems (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in introduction to digital systems (2/75); in the upper-division baccalaureate category, 3 semester hours in electronics laboratory and 3 in introduction to digital systems, all on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24B; 24G.

AR-1715-0373

IMPROVED HAWK FIRE CONTROL MAINTENANCE SUPERVISOR

Course Number: 121-24E40.

Location: Air Defense School, Ft. Bliss, TX.

Length: 7 weeks (207–210 hours).

Exhibit Dates: 8/74–Present.

Objectives: To provide enlisted personnel with in-depth training in the performance of organizational maintenance on a pulse acquisition radar and a range-only radar.

Instruction: Instruction includes radar block diagram theory, basic theory of power distribution, transmitters, receivers, display systems, and synchro control systems.

Credit Recommendation: In the vocational certificate category, 5 semester hours in radar or communications (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in communications technology (2/75); in the upper-division baccalaureate category, 2 semester hours in communications or as an elective in electronic systems and additional credit on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24E; 24V.

AR-1715-0374

FORWARD AREA ALERTING RADAR SYSTEM MAINTENANCE

(Forward Area Alerting Radar System)

Course Number: 121-24M30; 121-24N30.

Location: Air Defense School, Ft. Bliss, TX.

Length: 6 weeks (228 hours).

Exhibit Dates: 1/73–6/78.

Objectives: To provide enlisted personnel with a working knowledge of basic maintenance procedures on a radar system.

Instruction: Instruction includes radar emplacement and basic radar maintenance.

Credit Recommendation: In the vocational certificate category, credit in electronics laboratory on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24M; 24N.

AR-1715-0375

IMPROVED HAWK FIRE CONTROL MAINTENANCE (TRANSITION)

Course Number: 121-24E30-T; 121-24E40-T.

Location: Air Defense School, Ft. Bliss, TX.

Length: 6 weeks (160–197 hours).

Exhibit Dates: 9/73–Present.

Objectives: To provide enlisted personnel with a working knowledge of organizational maintenance of an acquisitional radar system.

Instruction: Instruction includes use of basic test equipment, functional circuit analysis, and radar system fundamentals.

Credit Recommendation: In the vocational certificate category, 4 semester hours in communications systems (2/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications systems (2/75); in the upper-division baccalaureate category, 2 semester hours as an elective in communications systems and additional credit on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24E; 24F.

AR-1715-0376

IMPROVED HAWK FIRING SECTION MAINTENANCE (TRANSITION)

Course Number: 121-24C40-T.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 13 weeks (476 hours). *Version 2:* 8 weeks (303 hours).

Exhibit Dates: *Version 1:* 3/77–Present. *Version 2:* 11/73–2/77.

Objectives: To provide enlisted personnel with a knowledge of organizational maintenance on a high-powered radar system and a missile launcher.

Instruction: Instruction includes performance checks, fault isolation, and corrective maintenance on the high-powered radar system and its subsystems. Version 1 provides a knowledge of electronic terminology and gives a working knowledge of missile launcher and loader maintenance and adjustment procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic electronics, 3 in electric circuit troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electric circuits laboratory on the basis of institutional evaluation 3 in industrial education basic electronics (8/77). *Version 2:* In the vocational certificate category, 6 semester hours in radar or communications (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics laboratory (2/75); in the upper-division baccalaureate category, credit in radar or communications on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24D; 24C.

AR-1715-0377

SAFEGUARD MISSILE MAINTENANCE TECHNICIAN/SPECIALIST

Course Number: 4F-221C; 121-28M20.

Location: Air Defense School, Ft. Bliss, TX.

Length: 26 weeks (804–857 hours).

Exhibit Dates: 1/74–Present.

Objectives: To train warrant officers and enlisted personnel in the assembly, installation, and maintenance of the Safeguard missile system.

Instruction: Instruction includes a review of electrical energy sources, Ohm's Law, multimeters, and digital logic terms.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electronics laboratory (2/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory (2/75).

Related Occupation Codes: 28M; 221C; 221B.

AR-1715-0378

Improved Hawk Organization Maintenance Supervisor Transition

Course Number: 4F-223D-T.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 20 weeks (711–730 hours). *Version 2:* 18 weeks (659–668 hours).

Exhibit Dates: *Version 1:* 7/75–Present. *Version 2:* 9/73–6/75.

Objectives: To provide warrant officers with a working knowledge of the Improved Hawk guided missile system and associated equipment and to prepare them to function as supervisors.

Instruction: Lectures and practical exercises in transistor circuit fundamentals; digital system hardware and software fundamentals, including general purpose computer usage; operation and troubleshooting of pulsed- and continuous-wave radars, missile fire control information processing system, and other support equipment for a battery of surface-to-air missile launchers; and management and supervisory techniques relevant to missile control systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in computer fundamentals, 6 in electronics laboratory (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory applications, and, on the basis of institutional evaluation 3 semester hours in computer fundamentals (8/77). *Version 2:* In the vocational certificate category, 6 semester hours in electronic systems maintenance, 3 in electronics laboratory, and 3 in introduction to digital systems (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in introduction to digital systems (2/75); in the upper-division baccalaureate category, 3 semester hours in electronics laboratory and 3 in introduction to digital systems, all on the basis of institutional evaluation (2/75).

Related Occupation Codes: 223D; 223C; 251D.

AR-1715-0379

Safeguard Ballistic Missile Defense Unit Commander

Course Number: 2F-1111.

Location: Air Defense School, Ft. Bliss, TX.

Length: 13 weeks (399 hours).

Exhibit Dates: 11/74–Present.

Objectives: To provide commissioned officers with a knowledge of the capabilities, functions, operations, and characteristics of a digitally controlled missile system.

Instruction: Instruction in digital data processing systems, peripheral interface elements, radar input devices, and electro-mechanical output devices.

Credit Recommendation: In the vocational certificate category, 4 semester hours in computer technology (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital systems or computer technology (2/75); in the upper-division baccalaureate category, 2 semester hours as an elective in computer science (2/75).

AR-1715-0380

Safeguard Staff Officer

Course Number: 2G-1115.

Location: Air Defense School, Ft. Bliss, TX.

Length: 22–24 weeks (662–725 hours).

Exhibit Dates: 8/73–Present.

Objectives: To provide commissioned officers with a general knowledge of the operation, maintenance, and performance capabilities of a digitally controlled missile system.

Instruction: Instruction in data processing systems, peripheral interface elements, and radar operation.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer technology (2/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in computer technology (2/75); in the upper-division baccalaureate category, 3 semester hours as an elective in computer science (2/75).

AR-1715-0381

Ground Air Traffic Control/NAVAIDS Equipment Repair

Course Number: 102-F27.

Location: Signal School, Ft. Gordon, GA.

Length: 8 weeks (286 hours).

Exhibit Dates: 12/75–Present.

Objectives: To train students to perform direct and general support maintenance on ground air traffic control and navigation aids equipment.

Instruction: Instruction on the equipment and facilities used in a ground-based air traffic control network, including transmitters, meteorological equipment, tape recorders, communications systems, exciters, and power amplifiers.

Credit Recommendation: In the vocational certificate category, 6 semester hours in air traffic control systems maintenance and operation (4/77).

Related Occupation Codes: 26D; 35L.

AR-1715-0382

Improved Hawk Officer

Course Number: 2F-1180C.

Location: Air Defense School, Ft. Bliss, TX.

Length: 6–8 weeks (221–281 hours).

Exhibit Dates: 6/73–Present.

Objectives: To provide commissioned officers with a knowledge of the characteristics, capabilities, functions, and maintenance of a radar-controlled missile system.

Instruction: Instruction includes electronic warfare, missile system operation, and system components.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/75).

AR-1715-0383

Improved Hawk Information Coordination Central Maintenance Supervisor

Course Number: 104-24G40.

Location: Air Defense School, Ft. Bliss, TX.

Length: 7 weeks (204–214 hours).

Exhibit Dates: *Version 1:* 7/75–Present. *Version 2:* 8/74–6/75.

Objectives: To provide enlisted personnel with in-depth training in the performance of organizational maintenance.

Instruction: Instruction includes operational maintenance of microwave transmitters and receivers, servo positioning systems, and application of electronic circuit analysis to functional schematics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in communications technology (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (8/77). *Version 2:* In the vocational certificate category, 5 semester hours in communications technology (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in communications technology (2/75); in the upper-division baccalaureate category, credit in communications technology on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24G; 24V.

AR-1715-0384

Improved Hawk Firing Section Maintenance Supervisor

Course Number: 121-24C40.

Location: Air Defense School, Ft. Bliss, TX.

Length: 7 weeks (210–221 hours).

Exhibit Dates: 8/74–Present.

Objectives: To provide enlisted personnel with in-depth training in the performance of organizational maintenance on a high power illuminator radar system.

Instruction: Instruction includes power system circuit theory, transmitter modulation theory, radio frequency receiver theory, and control circuit analysis.

Credit Recommendation: In the vocational certificate category, 5 semester hours as an elective in communications technology (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in communications technology (2/75); in the upper-division baccalaureate category, 2 semester hours as an elective in electronic systems, and additional credit in electronic systems on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24C; 24V.

AR-1715-0385

Surface-to-Air Missile Unit Commander

(Guided Missile Unit Commander (SAM))

Course Number: 44-0-17.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 15 weeks (600 hours).

Exhibit Dates: 8/55–12/55.

Objectives: To train commissioned officers in the duties and responsibilities of battery-grade officers in surface-to-air guided missiles units.

Instruction: Communications and staff procedures; combined arms; SAM tactics; motors and generators; Nike computer; Nike radars; missile electronics and launcher area equipment; mechanics; handling and battery operation; map reading and survey; basic electronics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity, and credit in electrical laboratory on the basis of institutional evaluation (12/68).

AR-1715-0386

Sound Ranging Crewman Noncommissioned Officer (NCO) Basic

Course Number: 412-17C40-EC.

Location: Field Artillery School, Ft. Sill, OK.

Length: 15 weeks (561 hours).

Exhibit Dates: 8/71–5/72.

Objectives: To provide personnel with knowledge sufficient to perform the duties of a sound-ranging crewman.

Instruction: Lectures and practical exercises in weapons, leadership, artillery transport, communications, tactics and combined arms, command and staff, nuclear weapons employment, survey, sound ranging, and determination of sound ranging weather data.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/74).

Related Occupation Codes: 17C; 17Z.

AR-1715-0387

Audio Specialist

Course Number: *Version 1:* 191-84D20; 11-R-842.1. *Version 2:* 11-E-10.

Location: Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 13 weeks (455–478 hours). *Version 2:* 15 weeks (546 hours).

Exhibit Dates: *Version 1:* 7/57–Present. *Version 2:* 11/55–6/57.

Objectives: To provide enlisted personnel with a working knowledge of operation and maintenance of audio-visual equipment.

Instruction: *All Versions:* Lectures and practical exercises in sound amplifiers and recording devices, magnetic tape recording, television audio equipment, and motion picture sound recording. *Version 2:* Includes more emphasis on television studio practices, cameras, and transmitters.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in audio-visual equipment (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in audio-visual equipment (7/74); in the upper-division baccalaureate category, 2 semester hours in audio-visual equipment (7/74). *Version 2:* In the vocational certificate category, 3 semester hours in audio-visual equipment (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in audio-visual equipment (7/74); in the upper-division baccalaureate category, 3 semester hours in audio-visual equipment (7/74).

Related Occupation Codes: 84D; 84F.

AR-1715-0388

Multichannel Ciphony System TSEC/CY-104 Repair

Course Number: 160-F5.

Location: Signal School, Ft. Gordon, GA.

Length: 4 weeks (137 hours).

Exhibit Dates: 3/74–Present.

Objectives: To provide enlisted personnel with the technical knowledge to perform direct or general support maintenance on the specified multichannel ciphony system.

Instruction: Troubleshooting and theory of operation and maintenance are primary areas covered.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic troubleshooting on the basis of institutional evaluation (4/77).

Related Occupation Codes: 31T.

AR-1715-0389

1. Common Basic Electronics Training (COBET)—Modules 1, 201, 2, 202, 3, 303, 4, 5/6 and 7
2. Common Basic Electronics Training (COBET)—Modules I-IV

Course Number: None.

Location: Army Training School, Ft. Jackson, SC.

Length: *Version 1:* 2–10 weeks (64–346 hours). *Version 2:* 2–6 weeks (60–120 hours).

Exhibit Dates: *Version 1:* 6/75–Present. *Version 2:* 1/74–5/75.

Objectives: To provide personnel who will enter electronics-related courses with basic electronics skills and to familiarize them with the basic test equipment which they will be using.

Instruction: *All Versions:* Lectures and laboratory exercises in the fundamental theory of operation of basic circuits such as power supplies and amplifiers; use of basic test equipment, including multimeters, oscilloscopes, and function generators; and concepts of circuit and system troubleshooting. The level of instruction is primarily descriptive and empirical, utilizing basic arithmetic skills. Students may attend one or more modules, depending upon training requirements for entry into follow-on training. *Version 2:* Also covers the basic concepts of electricity, including energy, power, voltage and current.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in basic electronics and troubleshooting for each module for a possible total of 6 semester hours (4/77). *Version 2:* In the vocational certificate category, 1 semester hour in basic electronics and troubleshooting for each module for a possible total of 4 semester hours (3/75).

AR-1715-0390

1. Nike Missile Launcher Repairer
2. Nike Missile-Launcher Repair
3. Nike Missile-Launcher Repair (Phases I and II)

Course Number: *Version 1:* 121-22N10. *Version 2:* 121-22N10. *Version 3:* 121-22N20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 32 weeks (1099–1100 hours). *Version 2:* 24 weeks (995 hours). *Version 3:* 26–30 weeks (875–1017 hours).

Exhibit Dates: *Version 1:* 3/79–Present. *Version 2:* 5/78–2/79. *Version 3:* 6/74–4/78.

Objectives: To train personnel to inspect, test, and repair the Nike-Hercules missile and launcher.

Instruction: *All Versions:* Instruction includes simplified coverage of RC and LC transients and sine-wave oscillators; soldering techniques and practices; empirical description of the operation of vacuum-tube pulse circuits; basic manual skills and missile hydraulic systems; Nike missile, launcher, and associated test equipment maintenance and repair. Topics include basic electricity concepts of work, energy, and power; DC and AC circuit theory—series, parallel, series-parallel, inductive, capacitive, and LCR circuits; series and parallel resonant circuits; transformers and power supplies; triodes, biasing circuits, single and multi-stage amplifiers, and voltage regulator circuits. *Version 3:* Note: Students who have completed Modules 1, 2, and 3 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II (26 weeks) of this course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete both Phases I and II (30 weeks) of this course.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in hydraulic systems (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in vacuum tube circuits, 3 in electronic equipment repair techniques and 2 in electrical measurements laboratory (8/79). *Version 3:* In the vocational certificate category, 12 semester hours in basic electronics and troubleshooting, 2 in hydraulic systems (3/75) for students who complete 26 weeks of the course, or 15 semester hours in basic electricity, electronics and troubleshooting, 2 in hydraulic systems (3/75) for students who complete 30 weeks of the course (see Note above); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity and electronics for students who complete Phase I and II (30 weeks) of the course (3/75).

AR-1715-0391

Data Processing Equipment Maintenance (DM-CMF) NCO Advanced

Course Number: 1-742-C42; 1-DM-C42.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 10–11 weeks (363–384 hours).

Exhibit Dates: 7/73–Present.

Objectives: To train personnel as supervisors of data processing equipment maintenance functions.

Instruction: Lectures and practical exercises in general military subjects; combined arms; applied communications; administration and management; combat service support operations; communication security; data processing; and data communications.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

Related Occupation Codes: 34B; 34D.

AR-1715-0392

Improved Hawk Fire Control Maintenance

Course Number: 121-24E10; 121-24E20.

Location: Air Defense School, Ft. Bliss, TX.

Length: *Version 1:* 26 weeks (860–920 hours). *Version 2* : 26 weeks (812–846 hours).

Exhibit Dates: *Version 1:* 3/75–Present. *Version 2:* 7/73–2/75.

Objectives: To provide enlisted personnel with a working knowledge of organizational maintenance on a missile radar system.

Instruction: *All Versions:* Lectures and practical exercises on electronic fundamentals, radar system fundamentals and repair, and the use of basic test equipment such as oscilloscopes and multimeters. *Version 1:* Includes topics on troubleshooting regulated power supplies, low frequency amplifiers, and fundamentals of pulse acquisition radar.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in electronics (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/75). *Version 2:* In the vocational certificate category, 3 semester hours in electronic fundamentals, 3 in basic electronics (2/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems elective (2/75); in the upper-division baccalaureate category, elective credit in electronics on the basis of institutional evaluation (2/75).

Related Occupation Codes: 24E.

AR-1715-0393

Unattended Ground Sensor Specialist

Course Number: 221-17M20.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 5 weeks (175 hours).

Exhibit Dates: 3/75–Present.

Objectives: To train enlisted personnel to install and operate unattended ground sensing devices.

Instruction: Lectures and practical exercises in ground sensing devices, detection devices, and associated hardware.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/75).

AR-1715-0394

Biomedical X-Ray Equipment Maintenance

Course Number: 4B-202A; 198-35T20.

Location: Medical Equipment and Optical School, Denver, CO.

Length: 40 weeks (1291–1334 hours).

Exhibit Dates: 9/73–Present.

Objectives: To train, beyond the basic level, personnel to install, inspect, calibrate, maintain, repair, and adjust medical X-ray and ancillary equipment.

Instruction: Lectures and practical exercises in fundamentals of DC and AC circuits, vacuum tubes, and solid-state electronic devices; specific pieces of commercially available X-ray equipment; technical writing; and applied physics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in DC and AC circuits, 1 in applied physics, 6 in electronics, 1 in technical writing, 8 in X-ray equipment maintenance (10/75).

Related Occupation Codes: 202A.

AR-1715-0395

Communications-Electronics Warrant Officer Advanced

Course Number: 4-11-C32.

Location: Signal School, Ft. Gordon, GA.

Length: 16–23 weeks (545–691 hours).

Exhibit Dates: 8/74–Present.

Objectives: To provide qualified warrant officers with a working knowledge of supervisory and staff management responsibilities in communication-electronics maintenance.

Instruction: Basic communication systems are covered in regard to management operational and maintenance procedures, including FM radio equipment, AM/SSB equipment, radio relays, telephone-digital communication equipment. War propagation, satellite communications, and various Army communication systems and procedures are also covered.

Credit Recommendation: In the vocational certificate category, 3 semester hours in telecommunications, 1 in telecommunications laboratory (4/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in telecommunications laboratory (4/77).

Related Occupation Codes: 286A; 281A; 282A.

AR-1715-0396

Digital European Backbone (DEB) Communications Systems Repair

Course Number: 101-F16.

Location: Signal School, Ft. Gordon, GA.

Length: 7–10 weeks (256–384 hours).

Exhibit Dates: 12/76–Present.

Objectives: To provide a working knowledge of the techniques required to maintain specified communications systems.

Instruction: Phase I (3 weeks) and Phase II (7 weeks) instruction in systems operation, including maintenance procedures, subsystem operation and function, block-diagram analysis, test procedures, and signal tracing. Note: Students may attend both Phases I and II or Phase II only.

Credit Recommendation: In the vocational certificate category, 1 semester hour in troubleshooting and maintenance procedures for Phase I and 3 semester hours in radio communications systems maintenance for Phase II (see note above) (4/77).

Related Occupation Codes: 26V; 26Y.

AR-1715-0397

Improved Hawk Radar Signal Simulator Station Repairer

(Improved Hawk Radar Signal Simulator Station Repair)

Course Number: 104-ASIW2; 104-F15.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 9–11 weeks (273–355 hours).

Exhibit Dates: 11/76–Present.

Objectives: To provide the student with the knowledge required for performing support maintenance functions on the electronic systems of the Hawk simulator station and associated test equipment.

Instruction: Course content is directed exclusively toward repair of the Hawk radar signal simulator station, including voltage regulators, PAR systems analysis, ROR, and CWIR systems analysis and ICWAR console and target effects system analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, semester hours in electronics repair techniques (8/79).

Related Occupation Codes: 24H.

AR-1715-0398

USMC Missile Systems Maintenance Fundamentals

Course Number: 121-5900.

Location: Air Defense School, Ft. Bliss, TX.

Length: 9 weeks (317 hours).

Exhibit Dates: 11/75–Present.

Objectives: To provide U.S. Marine Corps enlisted personnel with basic knowledge of Missile electronics theory applicable to the Hawk missile system.

Instruction: Course includes information of general interest such as AC and DC circuit theory, resonance, vacuum tubes, transistors, and microwave techniques.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics (8/77).

AR-1715-0399

Improved Hawk Firing Section Intermediate Maintenance

Course Number: 121-F23.

Location: Air Defense School, Ft. Bliss, TX.

Length: 13 weeks (445 hours).

Exhibit Dates: 5/75–Present.

Objectives: To qualify enlisted personnel to perform organizational maintenance on the Improved Hawk High Powered Illuminator, Missile, Loader, and Launcher at the middle manager level.

Instruction: Topics include DC circuits, RL and RC circuits, vacuum tubes, transistors, and microwave techniques. The remainder of the course is directed specifically toward the Hawk firing section.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electronics, 3 in electronic troubleshooting (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (8/77).

Related Occupation Codes: 24C.

AR-1715-0400

Improved Hawk Fire Control Intermediate Maintenance

Course Number: 121-F24.

Location: Air Defense School, Ft. Bliss, TX.

Length: 13 weeks (445 hours).

Exhibit Dates: 5/75–Present.

Objectives: The purpose of the course is to qualify enlisted personnel to perform organizational maintenance on the Improved Hawk Battery Control Center, Improved Acquisition Radar, and the Improved Range-Only Radar at the middle manager level.

Instruction: Significant coverage of general interest topics such as DC circuits, RL and RC circuits, resonance, vacuum tubes, and transistors is included. The remaining material covered applies to specific military systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity, 1 in electronics laboratory (8/77).

AR-1715-0401

AN/TSQ-73 System Operator/Repairman Senior-Level

Course Number: 4F-361A; 150-25L40.

Location: Air Defense School, Ft. Bliss, TX.

Length: 17 weeks (587–647 hours).

Exhibit Dates: *Version 1:* 12/77–Present. *Version 2:* 7/76–11/77.

Objectives: This course provides warrant officers and senior enlisted personnel with knowledge of the operation, maintenance, tactics, and doctrine for the AN/TSQ-73 Missile Minder Command and Control System.

Instruction: The course content is oriented specifically to the AN/TSQ-73. There is a limited amount of basic computer concepts that is of general interest.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in computer troubleshooting (8/77).

Related Occupation Codes: 361A; 25K; 25J; 25D; 25G; 25H; 25L; 287A; 301A; 361A.

AR-1715-0402

AN/TSQ-73 System Operator/Repairman Senior-Level (Transition)

Course Number: 4F-361A-T; 150-25L40-T.

Location: Air Defense School, Ft. Bliss, TX.

Length: 17 weeks (647 hours).

Exhibit Dates: 5/77–Present.

Objectives: Course provides warrant officers and senior enlisted personnel with knowledge of the operation, maintenance, tactics and doctrine for the AN/TSQ-73 Missile Minder Command and Control System.

Instruction: Topics include air defense tactics, system maintenance, weapons systems, and electronic warfare.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (8/77).

Related Occupation Codes: 361A; 25K; 25J; 25D; 25G; 25H; 25L; 287A; 301A; 361A.

AR-1715-0403

AN/TSQ-73 System Operator/Repairman Entry-Level

Course Number: 150-25L10; 150-F6.

Location: Air Defense School, Ft. Bliss, TX.

Length: 19 weeks (633–656 hours).

Exhibit Dates: 3/76–Present.

Objectives: To provide enlisted personnel with knowledge of the functions, operational procedures, and organizational maintenance procedures of Missile Command and Control System.

Instruction: Instruction provides student with radar nomenclature, functions and operation principles including related communications system. Some background in electrical circuit and digital system fundamentals is provided.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical circuits, 3 in electrical circuits laboratory (8/77).

Related Occupation Codes: 25L.

AR-1715-0404

Automated High Frequency Direction Finding (HFDF) Net Control Station (EELPOT) Maintenance

Course Number: 102-F36.

Location: Intelligence School, Ft. Devens, MA.

Length: 17 weeks (480 hours).

Exhibit Dates: 4/77–Present.

Objectives: To train the student to maintain the various items of equipment which make up the EELPOT net control station.

Instruction: Topics include minicomputer systems maintenance, floppy-disk maintenance, and serial I/O maintenance.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer system maintenance (9/77).

AR-1715-0405

Hazeltine 2000B Maintenance

Course Number: 102-F37.

Location: Intelligence School, Ft. Devens, MA.

Length: 3 weeks (99 hours).

Exhibit Dates: 4/77–Present.

Objectives: To train students to maintain the Hazeltine 2000B video-display terminal.

Instruction: Content is oriented specifically to the Hazeltine 2000B video-display terminal.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic maintenance (9/77).

AR-1715-0406

Fixed Countermeasures Receiving System Maintenance (AN/FLR-9)

Course Number: 102-F14.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (160 hours).

Exhibit Dates: 8/73–Present.

Objectives: To train technicians in electronic maintenance of fixed-base countermeasures equipment.

Instruction: Electronic maintenance on elements of radio systems and digital logic.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic maintenance (9/77).

AR-1715-0407

Special Purpose Receiving Systems Maintenance

Course Number: 102-F15.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (90 hours).

Exhibit Dates: 6/69–Present.

Objectives: To train technicians to maintain communications systems equipment.

Instruction: High-frequency (and above) radio receiving equipment, including electromechanical systems such as servomechanisms and hydraulic drives.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic maintenance (9/77).

AR-1715-0408

Complex Electronics Systems Analysis and Maintenance

Course Number: 102-F35.

Location: Intelligence School, Ft. Devens, MA.

Length: 39 weeks (1323 hours).

Exhibit Dates: 7/75–Present.

Objectives: To train students to maintain or supervise the maintenance of electronic warfare intercept systems.

Instruction: Topics include trigonometry, differential and integral calculus, applications of mathematics to electronic circuits, fundamentals of circuit analysis, logic fundamentals, computer architecture, computer programming, feedback theory, pulse circuits, and system testing and troubleshooting, analog and digital communications and antennas, and operational amplifiers and active filters.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronic troubleshooting (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in college algebra, 3 in calculus, 3 in electronics, 3 in logic fundamentals and computers, 6 in applied electronic circuits, and 3 in electrical communications (9/77).

AR-1715-0409

Automated High Frequency Direction Finding (HFDF) System Maintenance (EELPOT)

Course Number: 102-F33.

Location: Intelligence School, Ft. Devens, MA.

Length: 25 weeks (773 hours).

Exhibit Dates: 4/77–Present.

Objectives: To train students to maintain the various items of equipment which make up the EELPOT out-station processor unit.

Instruction: Course contains specific maintenance information on a Honeywell computer, floppy disk, video display, multiplexer receiver, and microprocessor controller.

Credit Recommendation: In the vocational certificate category, 9 semester hours in computer system maintenance (9/77).

AR-1715-0410

Environmental Collection System Maintenance (AN/GSR-4)

Course Number: 102-F25.

Location: Intelligence School, Ft. Devens, MA.

Length: 8 weeks (234 hours).

Exhibit Dates: 10/74–Present.

Objectives: To train students to maintain radio equipment used in electronic intelligence collection systems.

Instruction: Troubleshooting and repair of LF-UHF radio receivers.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic maintenance (9/77).

AR-1715-0411

Electronic Warfare (EW) Intercept Systems Maintenance Analyst

Course Number: 102-F30.

Location: Intelligence School, Ft. Devens, MA.

Length: 7 weeks (165 hours).

Exhibit Dates: 6/75–Present.

Objectives: To prepare personnel to supervise electronic maintenance activities.

Instruction: Training and practical exercises in property accounting, publications and files, training management, and U.S. Army organization.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77).

AR-1715-0412

Remote Control System Maintenance (AN/URR-66)

Course Number: 102-F18.

Location: Intelligence School, Ft. Devens, MA.

Length: 11–12 weeks (334 hours).

Exhibit Dates: 8/73–Present.

Objectives: To train students to maintain AN/URR-66 remote-controlled receiver equipment.

Instruction: Technician training for maintenance (operation, alignment, troubleshooting, and repair) of URR-66 advanced solid-state receiver system, including advanced logic techniques and circuits, frequency spectrum analysis, binary coding, and solid-state amplifier theory.

Credit Recommendation: In the vocational certificate category, 3 semester hours in digital electronics maintenance (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital electronics (9/77).

AR-1715-0413

Data Acquisition System Maintenance (AN/GSQ-76)

Course Number: 102-F19.

Location: Intelligence School, Ft. Devens, MA.

Length: 8 weeks (154 hours).

Exhibit Dates: 7/72–Present.

Objectives: To train enlisted personnel to maintain an AN/GSQ-76 data-acquisition system.

Instruction: Instruction and practical exercises in the repair and maintenance of magnetic tape units, digital assemblies, logic circuitry, memory units, and read-write controls.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

AR-1715-0414

Voice Intercept Position Maintenance

Course Number: 102-F24.

Location: Intelligence School, Ft. Devens, MA.

Length: 7–8 weeks (200–225 hours).

Exhibit Dates: 1/75–Present.

Objectives: To train technicians in maintenance of voice-intercept signal analysis equipment.

Instruction: Topics such as receiver alignment, tape recorder alignment and maintenance, and spectrum analyzer alignment are included.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic maintenance (9/77).

AR-1715-0415

Advanced Identification Techniques Position Maintenance (RO361)

Course Number: 102-F16.

Location: Intelligence School, Ft. Devens, MA.

Length: 2–3 weeks (64 hours).

Exhibit Dates: 3/73–Present.

Objectives: To train students to maintain advanced identification techniques equipment.

Instruction: Course content consists of topics directly related to the maintenance of specific military equipment.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (9/77).

AR-1715-0416

Tactical Countermeasures Receiving Systems Maintenance (AN/MLQ-24)

Course Number: 102-F17.

Location: Intelligence School, Ft. Devens, MA.

Length: 7 weeks (208 hours).

Exhibit Dates: 11/72–Present.

Objectives: The course trains the student to maintain the AN/MLQ-24 countermeasures system.

Instruction: Topics include high-frequency techniques, direction finding, block-diagram analysis, and practical exercises in alignment and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic maintenance (9/77).

AR-1715-0417

EW/Intercept Equipment Repairman (Electronic Warfare (EW) Intercept Systems Repairman)

Course Number: 102-33S10.

Location: Intelligence School, Ft. Devens, MA.

Length: 34–35 weeks (1020 hours).

Exhibit Dates: 7/75–Present.

Objectives: To train enlisted personnel to troubleshoot and repair electronic warfare/signal intelligence intercept equipment.

Instruction: Training and practical exercises in basic AC and DC fundamentals, electronic tubes, solid-state devices, amplifiers, meters, digital logic devices, modulation, multiplexing, wave propagation, communications devices, and military science.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronic maintenance (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electric circuit fundamentals, 3 in basis electronics (9/77).

Related Occupation Codes: 33S.

AR-1715-0418

Electronic Countermeasures Receiving System Maintenance (AN/TLQ-17)

Course Number: 102-F21.

Location: Intelligence School, Ft. Devens, MA.

Length: 7 weeks (204 hours).

Exhibit Dates: 2/74–Present.

Objectives: To provide technician training in the servicing of electronic countermeasures communications equipment.

Instruction: Systems-level theory of operation and troubleshooting of radio and electronic components.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic maintenance (9/77).

AR-1715-0419

Improved Hawk Launcher and Mechanical Systems Repair Transition

Course Number: 121-24L20-T; 121-24L40-T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 10–12 weeks (325–385 hours).

Exhibit Dates: 6/76–3/79.

Objectives: To provide students with the knowledge and techniques for inspecting, testing, and repair of Improved Hawk launcher and selected support equipment. Course has MOS 46D (Improved Hawk Mechanical Systems Repairman) and MOS 22K (Hawk Missile-Launcher Repairman) tracks.

Instruction: Instruction is in the operation of the Improved Hawk missile system. Instruction in the 10-week 46D track includes basic electronic subjects such as resonant circuits, amplifier circuits, soldering techniques and transistor fundamentals. Instruction in the 12-week 22K track includes launcher electronics, hydraulic systems, electro-mechanical systems and hydro-pneumatic systems used in the Hawk system.

Credit Recommendation: In the vocational certificate category, 9 semester hours in basic electronics for students completing the 46D track, and, for students completing the 22K track, 3 semester hours in basic electronics, 6 in mechanical systems (8/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics for students completing the 46D track and, for students completing the 22K track, 1 semester hour in mechanical systems (8/77).

Related Occupation Codes: 46D; 22K; 24L; 24V.

AR-1715-0420

Defense Against Sound Equipment (DASE), Phase I

Course Number: Not available.

Location: Intelligence School, Ft. Devens, MA.

Length: 16 weeks (474 hours).

Exhibit Dates: 6/77–Present.

Objectives: To provide selected personnel with a working knowledge of specialized electronic equipment and techniques used in the detection and location of clandestine devices.

Instruction: Instruction and practical exercises in basic electricity and electronics including series and parallel circuits, meters, AC and DC properties, inductance, capacitance, resonance, solid-state devices, oscillators, digital logic, wave shaping, transmitters, and receivers. Phase II is at Ft. Huachuca, AZ.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory (9/77); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity and electronics (9/77).

AR-1715-0421

Multichannel Communications Equipment Operator Phase I by Correspondence

Course Number: None.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104–156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install and perform on-going maintenance on low capacity PCM equipment, medium capacity PCM equipment, FDM-multiplying equipment and communications security devices.

Instruction: Students must complete Phase I. Once a student has completed Phase I, the student must complete one or more of the following phases: IA, IB, IC. The course provides the necessary instruction to develop the skill level of a journeyman multichannel equipment operator for the transmitters, receivers, multiplexers, repeaters, converters, carrier terminals and communications security devices in multichannel communication systems. Course includes proctored end-of-course examination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics (6/79).

Related Occupation Codes: 31M.

AR-1715-0422

Multichannel Communications Equipment Operator Phase IA by Correspondence.

Course Number: None.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104–156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install and perform on-going maintenance on low capacity PCM equipment, medium capacity equipment and communications security devices.

Instruction: Students must complete Phase I prior to enrollment. Students must then complete one or more of Phases IA, IB, IC. The course provides the necessary instruction to develop the skill level of a journeyman multichannel equipment operator for the transmitters, receivers, multiplexers, repeaters, converters, carrier terminals and communications security devices in multichannel communication systems. Course includes comprehensive end-of-course proctored examination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics (6/79).

Related Occupation Codes: 31M.

AR-1715-0423

Multichannel Communications Equipment Operator Phase IB by Correspondence

Course Number: None.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104–156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install and perform capacity PCM equipment, FDM-multiplxing equipment and communications capacity PCM equipment, FDM-multipleying equipment and communications security devices.

Instruction: Students must complete Phase I prior to enrollment. Students must then complete one or more of Phases IA, IB, IC. The course provides the necessary instruction to develop the skill level of a journeyman multichannel equipment operator for the transmitters, receivers, multiplexers, repeaters, converters, carrier terminals and communication systems. Course includes a comprehensive end-of-course proctored examination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics plus 1 additional semester hour in electronics for those students completing the supervised on-job training option (6/79).

Related Occupation Codes: 31/M.

AR-1715-0424

Multichannel Communications Equipment Operator Phase IC by Correspondence

Course Number: None.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104–156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install and perform on-going maintenance on low capacity PCM, medium capacity PCM equipment, FDM-multiplexing equipment and communications security devices.

Instruction: Students must complete Phase I. Once a student has completed Phase I, the student must then complete one or more of Phases IA, IB, IC. The course provides the necessary instruction to develop the skill level of a journeyman multichannel equipment operator for the transmitters, receivers, multiplexers, repeaters, converters, carrier terminals and communications security devices in multichannel communication systems. The course includes a comprehensive end-of-course proctored examination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics plus an additional 1 semester hour in electronics for those students completing the supervised on-job training option (6/79).

Related Occupation Codes: 31M.

AR-1715-0425

Communications Techniques Control Center Operator

Course Number: 202-F2.

Location: Signal School, Ft. Gordon, GA.

Length: 3 weeks (92 hours).

Exhibit Dates: 12/78–Present.

Objectives: The course provides working knowledge of concepts, procedures, and equipment for the control and operation of a communications control center.

Instruction: Students learn to install, calibrate, and operate specialized military communications equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in radio communications (8/79).

Related Occupation Codes: 31N.

AR-1715-0426

AN/USC-26/CV-3034 Repair

Course Number: 101-F18.

Location: Signal School, Ft. Gordon, GA.

Length: 3 weeks (102 hours).

Exhibit Dates: 8/78–Present.

Objectives: The course trains the student in the troubleshooting, repair, and operation of one specific piece of equipment—an analog-digital converter.

Instruction: Each portion of this equipment is studied in detail with emphasis on troubleshooting. Topics covered include an overview of digital communications subsystems, A/D conversion, and block-diagram analysis.

Credit Recommendation: In the vocational certificate category, 2 semester hours in troubleshooting techniques (8/79); In the lower-division baccalaureate/associate degree category, 1 semester hour in troubleshooting techniques (8/79).

Related Occupation Codes: 26V10.

AR-1715-0427

Radio Set AN/FRC-113 Operation and Maintenance

Course Number: 101-AS1E3.

Location: Signal School, Ft. Gordon, GA.

Length: Phase I, 2 weeks; Phase II, 3 weeks; for a total of 5 weeks (106 hours).

Exhibit Dates: 12/78–Present.

Objectives: To provide students with knowledge and skills required to install, operate, align, and troubleshoot a specialized radio set, AN/FRC-113.

Instruction: Phase I includes an overview of radio set functions and characteristics and discussion of block diagrams. Student also performs alignments, traces signal paths, and troubleshoots and maintains circuits to operational standards. Phase II extends troubleshooting to the radio transmitter and isolates malfunctions to module and component levels.

Credit Recommendation: In the vocational certificate category, 1 semester hour in troubleshooting for Phase I, 2 semester hours in troubleshooting for Phase II, for a total of 3 semester hours for completion of the 5-week course (8/79).

AR-1715-0428

Nuclear Weapons Maintenance Leader

Course Number: 644-55G30-T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 12 weeks (370 hours).

Exhibit Dates: 11/78–Present.

Objectives: To provide training necessary for supervision of maintenance, assembly, and calibration performed on nuclear weapons and associated electronics test equipment.

Instruction: Phase I includes maintenance records and report writing, inspection, storage, system performance testing, safety, and warhead disarming techniques. Phase II consists primarily of basic electronics training, through lectures and practical exercises, which includes Ohm's Law, power supplies, series and parallel circuits, AC circuits, amplifiers, oscillators, solid-state devices, special circuits, and soldering. Other subjects covered by Phase II training are use, maintenance, and calibration of commercial test equipment, including oscilloscopes, power supplies, and signal generators.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in test equipment maintenance for Phase II. Credit is not recommended for students taking only Phase I (8/79). In the upper-division baccalaureate category, Credit is recommended on the basis of institutional evaluation (8/79).

Related Occupation Codes: 55G; 35F.

AR-1715-0429

Satellite Communications Systems Fundamentals

Course Number: 102-F39.

Location: Signal School, Ft. Gordon, GA.

Length: 18 weeks (677 hours).

Exhibit Dates: 3/78–Present.

Objectives: To train students to operate, troubleshoot, align and repair common analog and digital communications and spread spectrum subsystems.

Instruction: Student analyzes block diagrams of system components, including amplifiers, exciters, FM modulators, discriminators, sweep circuits, detectors, and phase shift networks. Student aligns and troubleshoots klystron systems, transmittors, demodulators, and other circuits; performs functional analyses, operational checks, and services on all equipment; and develops a knowledge of digital applications, including digital codes, base logic functions, clock circuits, A/D conversion, and error correcting codes. Student also traces signal flow on circuit diagrams, provides operational checks, isolates faults, and repairs receivers and transmitters.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic communications circuits, 3 in electronic troubleshooting, 1 in computer circuits (8/79). In the lower-division baccalaureate/associate degree category, 3 semester hours in communications circuits laboratory, 1 in digital logic (8/79).

AR-1715-0430

Strategic Satellite/Microwave Systems Operator

Course Number: 201-26R10.

Location: Signal School, Ft. Gordon, GA.

Length: 20 weeks (754 hours).

Exhibit Dates: 10/78–Present.

Objectives: To provide students with the knowledge and skills required to operate and perform minor maintenance on a satellite microwave system.

Instruction: Student is introduced to many of the ideas of basic electronics. Oscillators, power supplies, and amplifier circuits are studies and analyzed. Student learns troubleshooting and signal tracing techniques, using the VOM and oscilloscope. A variety of equipment is studied in detail.

Credit Recommendation: In the vocational certificate category, 6 semester hours in troubleshooting techniques, 3 in solid-state circuitry, 2 in DC circuit analysis (8/79); In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting techniques, 1 in solid-state circuitry, 3 in introduction to electronics, 1 in DC circuit analysis (8/79).

Related Occupation Codes: 26R.

AR-1715-0431

Avionic Navigation and Flight Control Equipment Repair

Course Number: 102-35M10.

Location: Signal School, Ft. Gordon, GA.

Length: Phase I, 8 weeks; Phase II, 16 weeks; for a total of 24 weeks (880 hours).

Exhibit Dates: 4/78–Present.

Objectives: To provide the working knowledge required to perform direct and general support maintenance on electronic navigation and automatic flight control equipment.

Instruction: Phase I consists of basic electronic theory, including basic circuits, rectifiers, meters, amplifiers, oscilloscopes, oscillators, and block-diagram analysis. Phase II includes repair, maintenance, and operation of specialized electronic equipment and components. Theory acquired in phase I is applied to activities in phase II.

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic electronics, 2 2 in basic electronic communications, for phase I; 2 semester hours in soldering and printed circuit board repair, 6 in troubleshooting techniques for phase II, for a total of 16 semester hours for completion of the 24-week course (8/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 2 in basic electronic communication for phase I, 2 semester hours in troubleshooting techniques for phase II, for a total of 10 semester hours for completion of the 24-week course (8/79).

Related Occupation Codes: 35M.

AR-1715-0432

DIAL-MANUAL CENTRAL OFFICE REPAIR

Course Number: 622-36H10.

Location: Signal School, Ft. Gordon, GA.

Length: 38 weeks (1439 hours).

Exhibit Dates: 1/79–Present.

Objectives: Students are trained to perform maintenance, repair, and interconnection of central office telephone exchange equipment.

Instruction: The first part of this course concentrates on basic electronics; the second deals with the actual telephone equipment. Solid-state devices and circuits, including amplifiers, oscillators, pulse generators and power supplies, are studied. Analysis and troubleshooting of these circuits is emphasized. Familiarization with the basic ideas and language of electronics is accomplished, as well as troubleshooting of the specific equipment for telephone exchanges.

Credit Recommendation: In the vocational certificate category, 6 semester hours in troubleshooting techniques, 10 in telephone systems maintenance (8/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 2 in troubleshooting techniques (8/79).

Related Occupation Codes: 36H.

AR-1715-0433

COMBAT AND STRATEGIC COMMUNICATION AND ELECTRONIC OFFICER

Course Number: 4-11-OA25.

Location: Signal School, Ft. Gordon, GA.

Length: 26 weeks (1055 hours).

Exhibit Dates: 7/78–Present.

Objectives: To prepare commissioned officers in grade of first lieutenant or captain to serve as a staff officer at battalion level for the planning, installing, maintaining, and managing of tactical communications systems and facilities in support of combat operations.

Instruction: The course includes general military topics covering organizational effectiveness, systems planning and communications. Course covers tactical communications-electronics equipment and planning to include telephone and teletypewriter systems, tactical multichannel system planning, and systems view; analysis of training needs and plans, organizational maintenance operations, cable distribution systems, ADP software, microwave and troposcatter systems engineering and path planning and independent study and research.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in human relations management (8/79); in the graduate degree category, 6 semester hours in human relations management, Credit is to be granted in either the upper division or the graduate category.

AR-1715-0434

TACTICAL WIRE OPERATIONS SPECIALIST

Course Number: 621-36K10-OSUT.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 6:* 12 weeks (496 hours).

Exhibit Dates: 9/78–Present.

Objectives: Provide enlisted personnel with a general working knowledge of installation and maintenance of field wave lines, tactical switchboards and radar systems.

Instruction: Course includes installation, maintenance and operation of field wire switchboards and telephones. Student installs and repairs line systems in the field.

Credit Recommendation: In the vocational certificate category, 4 semester hours in lineman-installer, 2 in switchboard operator (8/79).

Related Occupation Codes: 36K; 31V.

AR-1715-0435

SATELLITE COMMUNICATIONS TERMINAL AN/MSC-46 REPAIR

Course Number: 102-F38.

Location: Signal School, Ft. Gordon, GA.

Length: 10 weeks (355 hours).

Exhibit Dates: 11/77–Present.

Objectives: To train military service personnel to operate, troubleshoot, align, and repair satellite communications earth terminal complex AN/MSC-46.

Instruction: Student learns to operate satellite earth terminal complex (ETC) equipment; analyze block diagrams; trace power distribution in the system; perform noise tests, perform operational checks and maintenance services on antenna, amplifier and frequency conversion circuitry; maintain test circuits; analyze subsystems; and trace block diagrams, including antenna feed, phase shifters, and low- and high-power amps, RF circuits, cooling units and heat exchangers. Student performs operational checks and services on above systems.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electrical system maintenance, 3 in electronics troubleshooting (8/79).

Related Occupation Codes: 26Y.

AR-1715-0436

TACTICAL MICROWAVE SYSTEMS REPAIR

Course Number: 101-26L10.

Location: Signal School, Ft. Gordon, GA.

Length: Phase I, 36 weeks; Phase II, 6 weeks; for a total of 42 weeks (Phase I, 1040; Phase II, 227; for a total of 1267 hours).

Exhibit Dates: 1/79–Present.

Objectives: To provide enlisted personnel with knowledge required to install, operate, troubleshoot and repair tactical microwave radio systems.

Instruction: The course has two phases. In phase I the student measures and compares voltages and resistances, isolates meter troubles, calibrates meters, uses oscilloscopes and multimeters, develops solder skills including printed circuit board repair, traces wire diagrams, reads schematic charts and traces signal and current paths. The course also includes troubleshooting of various low- and high-frequency electronic circuits, using logic trainer and check memory, counter, and decoder digital circuits as well as adjusting and aligning frequency shifting, RF meter, amplifier, multiplexer and RF receiver circuits. Student installs, adjusts, and aligns antennas and related drive circuits. Enlisted men will take this phase and not take phase II. Phase II is designed for the National Guard, the Reserves and foreign students. The student learns to troubleshoot, align, and maintain AN/TRC-24 radio set as well as telegraph terminal AN/TCC-4 and telephone terminal AN/TCC-7. Students taking Phase II may also take Phase I.

Credit Recommendation: In the vocational certificate category, 6 semester hours in system troubleshooting techniques, 2 in digital logic circuitry, 2 in soldering and printed circuit board repair for those taking Phase I; 3 semester hours in radio circuit troubleshooting for those taking Phase II, for a total of 13 semester hours for students completing both Phase I and II (8/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronic, 2 in basic electronic communications, 2 in logic systems, 2 in troubleshooting for students completing Phase I. For those students completing Phase II credit is recommended on the basis of institutional evaluation (8/79).

Related Occupation Codes: 26L.

AR-1715-0437

STRATEGIC MICROWAVE SYSTEMS REPAIRER

Course Number: 101-26V10.

Location: Signal School, Ft. Gordon, GA.

Length: 37 weeks (1384 hours).

Exhibit Dates: 10/78–Present.

Objectives: To provide training in the installation, operation and repair of strategic microwave radio systems.

Instruction: The course includes comprehensive coverage of basic electronics: solid-state circuitry of power supplies, audio amplifiers, pulse generators, AM/FM transceivers, and logic trainers. Approximately 50 percent of course time is devoted to practical operation and troubleshooting of military radio equipment, including 76 hours in precision soldering. Prerequisites include completion of a course in algebra and some background in science.

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic electronics, 6 in troubleshooting techniques, 2 in soldering of printed circuit board repair (8/79); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics basics, 2 in basic electronic communications, 2 in digital circuits, 2 in troubleshooting techniques (8/79); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, laboratory credit based on institutional evaluation (8/79).

Related Occupation Codes: 26V.

AR-1715-0438

SATELLITE COMMUNICATIONS (SATCOM) OPERATOR

Course Number: *Version 1:* 102-F43. *Version 2:* 102-F22.

Location: Signal School, Ft. Gordon, GA.

Length: 5–8 weeks (185–298 hours).

Exhibit Dates: *Version 1:* 4/78–Present. *Version 2:* 9/76–3/78.

Objectives: Provides personnel with skills required to operate a satellite communications terminal and a digital communications subsystem

Instruction: *Version 1:* Course includes practical, hands-on experience in the operation of highly specialized military communications equipment. Student must possess a background in communications operations and also demonstrate a capability to adjust and align the system. *Version 2:* In this version, fewer systems are covered in the specific maintenance program. Some training is given in signal flow tracing and block-diagram analysis.

Credit Recommendation: In the vocational certificate category, 3 semester hours in satellite communications maintenance (8/79).

AR-1715-0439

Electronic Warfare Staff Officer

Course Number: 2G-F8.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2 weeks (76 hours).

Exhibit Dates: 5/79–Present.

Objectives: To prepare staff officers for coordinating, planning, and integrating tactical electronic warfare to support combat operations.

Instruction: Course discusses the electronic warfare environment, defensive electronic warfare, and electronic warfare tasking and deployment, and provides warfare training.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the training (6/79).

AR-1715-0440

Avionic Mechanic by Correspondence

Course Number: J34.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide enlisted personnel with a working knowledge of communications-electronic equipment (TEC) and general support maintenance on avionic communications equipment.

Instruction: Course includes introductory electronics, operation of general purpose multimeter and the testing of receiver and transmitter circuits of communication equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electronics principles (6/79).

Related Occupation Codes: 35K.

AR-1715-0441

Fixed Telecommunications System Track 26 by Correspondence

Course Number: J-14; None.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To prepare the signal officer to plan, install, operate, and maintain field telecommunication equipment other than tactical communications systems and facilities.

Instruction: The instruction covers installation, operation, and maintenance of field communication equipment and introduction to basic electronics principles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics, 5 in basic communications (6/79).

AR-1715-0442

Fixed Station Radio Repair by Correspondence

Course Number: J08.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install and perform detailed and complete overhaul maintenance of fixed station radio receiving and transmitting equipment.

Instruction: The course gives instruction in the complete overhaul of radio receiving and transmitting equipment. Also included is instruction on the operation of multimeters, signal generators, and oscilloscopes necessary for the troubleshooting, repair and alignment of transmitting and receiving equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (6/79).

Related Occupation Codes: 32H.

AR-1715-0443

Fixed Station Technical Controller by Correspondence

Course Number: J07.

Location: Institute for Professional Development, tis, VA.

Length: Present weeks (Maximum 104 hours).

Exhibit Dates: Ft. Eustis, VA–1/80.

Objectives: To provide the knowledge necessary to maintain the quality and continuity in operation of all types of data communications networks.

Instruction: This course provides instruction in data communication systems, telephone and telegraph transmission, and teaches the maintenance of quality circuit conditions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (6/79).

Related Occupation Codes: 32D.

AR-1715-0445

Strategic Microwave Systems Repair by Correspondence

Course Number: J22.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install, operate, troubleshoot and repair fixed and transportable strategic microwave communications systems.

Instruction: Course gives instruction in basic electricity, electronics to include tubes and their applications, semiconductor devices, and their application. Timing circuits, microwave techniques, single-sideband transmission as well as telephone and telegraph transmission are also provided for. Also covered is operation of the following test equipment: telephone test sets, digital readout counters for below and above 85 MHz, and oscilloscopes.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in basic and advanced electronics theory, 2 in electronics communication systems, 2 in the operation of test equipment (6/79).

Related Occupation Codes: 26V.

AR-1715-0446

Ground Control Approach Radar Repair by Correspondence

Course Number: J20.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide knowledge for direct and general support maintenance on ground control approach radar and associated identification friend or foe (IFF) equipment.

Instruction: Course provides instruction in basic electricity, electronics, electron tubes and their uses in amplifiers, rectifiers, receivers and transmitters. Semiconductor devices and their application are covered in minute detail. Radar principles, timing circuits, indicators, transmitters, and receivers are also covered at the technician level. Multiplexing, digital circuit fundamentals and all the associated test equipment necessary to troubleshoot, repair and align the above equipment is covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electronic fundamentals, 2 in radar theory and repair (6/79).

Related Occupation Codes: 26D.

AR-1715-0447

Circuit Conditioning by Correspondence

Course Number: I69.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To introduce the student to the theories and principles involved in the electrical conditioning of circuits used in telephone and telegraph systems.

Instruction: Course covers a broad field of subjects related to signal conditioning in telephone and telegraph systems. Subject matter includes wire transmission principles, patch panels, line terminations, communication circuit quality, telephone system characteristics, and equipment used for measuring system noise and equalization.

Credit Recommendation: In the vocational certificate category, 10 semester hours in telephony (6/79).

AR-1715-0448

Data Processing Systems Repair Technician by Correspondence

Course Number: I15.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide knowledge of semiconductors and introduction to digital circuitry and Autodin systems.

Instruction: The course offers the following subjects: semiconductor theory and applications, power transistors, digital circuit fundamentals, basic test equipment operation, shop practices, introduction to Autodin, supply management and organizational maintenance, machine shop operation, and communications-electronics and maintenance organization.

Credit Recommendation: In the vocational certificate category, 2 semester hours in machine shop practices (6/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in intermediate and advanced electronics theory (6/79).

Related Occupation Codes: 287A.

AR-1715-0449

RADAR EQUIPMENT REPAIR BY CORRESPONDENCE

Course Number: I12.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To obtain a working knowledge of semiconductors and transistors and of the principles employed in radar. Theory of AM radio transmitters and receivers, cathode ray tubes and digital circuit fundamentals are provided for.

Instruction: The course provides instruction in: semiconductor devices and their application, power transistors, AM radio transmitters and receivers, principles of radar, timing circuits, radar indicators, radar transmitters, radar receivers, digital circuit fundamentals, basic test equipment, electronic communication systems, and machine shop and machinist skills.

Credit Recommendation: In the vocational certificate category, 2 semester hours in machine shop skills and metal working (6/79); in the lower-division baccalaureate/associate degree category, 10 semester hours in advanced electronic theory (6/79).

Related Occupation Codes: 286A.

AR-1715-0450

C-E OPERATIONS CHIEF BY CORRESPONDENCE

(Communications-Electronics Operations Chief by Correspondence)

Course Number: JO6.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 416 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To develop technical depth and system orientation in the installation, operation and management of tactical and strategic communications systems and networks.

Instruction: The course provides the student with a broad coverage of studies related to communication systems and equipment, their installation, operation, and organizational maintenance. Subjects covered in this course include large scale communication systems (AUTODIN, Long Range Radio Systems, satellite communications, etc.), microwave fundamentals, and basic theory related to digital equipment and techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 7 semester hours in communication systems, 3 in communication equipment, 3 in microwave theory, 2 in digital equipment and systems (6/79).

AR-1715-0451

TELETYPEWRITER EQUIPMENT REPAIR BY CORRESPONDENCE

Course Number: J53.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge and skills to install, test, and perform basic and advanced levels of maintenance of electrical, mechanical and electronic teletypewriter equipment.

Instruction: The course provides supervised training in the installation, testing, troubleshooting and repair of teletypewriter equipment. It covers the complete theory of operation of various teletypewriter sets and their associated equipment. The operation and use of basic types of test equipment such as multimeters and oscilloscopes is covered in fine detail. All training requires the actual equipment specified and all practice sessions in the various lessons are supervised by qualified technicians.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electromechanics, 2 in electronics (6/79).

Related Occupation Codes: 31J.

AR-1715-0452

TACTICAL MICROWAVE SYSTEMS OPERRATOR BY CORRESPONDENCE

Course Number: J51.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide knowledge necessary to install, operate and perform minimal maintenance on microwave communications systems and equipment.

Instruction: This course provides instruction in the installation, operation and basic maintenance of microwave systems. Optional supervised on-job training is provided in the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics plus an additional 7 hours in electronics for those students completing the supervised on-job training option (6/79).

Related Occupation Codes: 26Q.

AR-1715-0453

FIELD RADIO REPAIR BY CORRESPONDENCE

Course Number: J52.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge of how to maintain field type radios and associated equipment at the functional level.

Instruction: The course provides supervised on-job training for the operation and on-going maintenance procedures on various types of field radio systems. Operations training is also provided on the test equipment necessary to check the above systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (6/79).

Related Occupation Codes: 31E.

AR-1715-0454

STRATEGIC SATELLITE/MICROWAVE SYSTEMS OPERATOR BY CORRESPONDENCE

Course Number: J21.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide individuals with an understanding of the operation of microwave and satellite systems.

Instruction: The course gives instruction in basic and advanced electronic fundamentals and radio wave transmission and reception. Microwave systems are covered in detail. The student will be able to operate, check-out, and repair the systems outlined in the course. Operation of basic types of test equipment is covered; shop practices, safety and signal security are stressed throughout the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics to include microwave and test equipment (6/79).

Related Occupation Codes: 26R.

AR-1715-0455

NCR-500 COMPUTER REPAIR BY CORRESPONDENCE

Course Number: J30.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide enlisted personnel with a general working knowledge of automatic data processing equipment (ADPE) and the fundamentals of basic electricity, electronics and digital principles and the techniques required to inspect, test and repair the NCR-500 computer.

Instruction: The course gives instruction in introductory electricity and basic test equipment operation and also provides instruction in introductory electronics, semiconductor devices, applications, and digital circuit fundamentals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity and test equipment, 4 in basic electronics and digital circuits (6/79).

Related Occupation Codes: 34E.

AR-1715-0456

TACTICAL MICROWAVE SYSTEMS REPAIR BY CORRESPONDENCE

Course Number: J49.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: This course provides the knowledge and plots the necessary training required to perform detailed maintenance and alignment of microwave communications systems.

Instruction: This course provides for direct supervised training on various microwave systems. On-the-job training requiring hands-on work on actual equipment is stressed throughout this course. A thorough knowledge of electronics theory is required to understand the detailed circuit analysis outlined. A complete understanding of the operation, to include hands-on training of various pieces of test equipment such as multimeters, frequency counters, dual trace oscilloscopes, tube testers and solid state testers for e troubleshooting and alignment of microwave systems is provided for in this course. In all areas a supervised end-of-subject examination is given using the actual equipment involved.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in electronics (5/79).

Related Occupation Codes: 26L.

AR-1715-0457

Radio Operator by Correspondence

Course Number: J47.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide basic skills and knowledge necessary for operation of single-channel AM and FM radio systems.

Instruction: This course gives instruction in the physical characteristics of various radio sets and explains how these sets are connected with their associated equipment. It covers operating procedures under different situations such as normal conditions, inclimate weather, and deliberate jamming. After taking the course the individual should be able to operate the different radios, recognize the different subunits, and perform basic checkout and preventive maintenance procedures.

Credit Recommendation: Credit is not recommended due to the limited scope and level of the course (5/79).

Related Occupation Codes: 05B.

AR-1715-0458

Signal Advanced Noncommissioned Officer (NCO) Education System, Phases I and IB by Correspondence

Course Number: SO8.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 260 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: The course is to familiarize the student with the basic principles of time division multiplexing and pulse code modulation as used in multichannel communications equipment and systems operations.

Instruction: This correspondence course gives instruction in the basic principles of division multiplexing, pulse code modulation (PCM), PCM multiplexer sets, and multichannel PCM cable systems.

Credit Recommendation: Credit is not recommended because of the limited nature of the training (5/79).

AR-1715-0459

Signal Advanced Noncommissioned Officer (NCO) Education System, Phases I and IA by Correspondence

Course Number: SO7.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 364 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To familiarize the student with the basic principles of time division multiplexing and pulse code modulation as used in multichannel communications equipment and systems operation.

Instruction: Course gives instruction in the basic principles of time division multiplexing, pulse code modulation (PCM), PCM multiplexer sets, and multichannel PCM cable systems.

Credit Recommendation: Credit is not recommended because of the limited nature of the training (5/79).

AR-1715-0460

Radio Systems Officer by Correspondence

Course Number: O505; I98.

Location: Institute for Professional Development, FT. Eustis, VA.

Length: Maximum 156 weeks (FT. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide an individual with basic knowledge and planning skill in directing and supervising the installation, operation and maintenance of a tactical station radio and field communication equipment and systems.

Instruction: This correspondence course gives instruction in fundamentals of DC and AC and basic theory of electrical networks and solid state devices. Practical instruction is also given in AM/FM transmitter and receiver systems including field exercise in both theory and practice in handling multichannel communication systems and equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in electronics to include fundamentals in DC/AC, solid state devices and networks, and fundamentals of communication (5/79).

AR-1715-0461

Television Equipment Repair by Correspondence

Course Number: J50.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide an individual with the essential knowledge and skill to install, test, adjust and perform direct general support in maintenance of black-and-white and color television equipment such as vidicon camera chains, control, switching, monitor, transmitting, receiving and recording audio and associated microwave and closed circuit distribution systems.

Instruction: The course provides practical instruction on installing, adjusting, and troubleshooting the black-and-white television, color television, radio transmitter, audio systems, and associated equipment. A limited portion of this course requires prior knowledge of basic electricity and electronics as well as digital circuit fundamentals.

Credit Recommendation: Credit is not recommended because of the limited nature of the training (5/79).

AR-1715-0462

Telephone-Digital Communications Officer by Correspondence

Course Number: O405; I97.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the student with a basic knowledge of DC and AC curcuit theory.

Instruction: This correspondence course gives instruction in series and parallel resistive circuits, magnetism, electromagnetism and basic network analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics technology, 4 in electromechanical technology (5/79).

AR-1715-0463

Communications-Electronics Material Management Specialty Track 72 by Correspondence

Course Number: J17.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: This course enables the student to supervise operation or material management centers for communications-electronics material.

Instruction: The course provides training in the principles related to maintenance management, supply management, mechanized stock control, combat service support, procurement and similar subjects pertaining to the operation of material management centers for communications-electronics material.

Credit Recommendation: Credit is not recommended due to the military-specific nature of the training (6/79).

AR-1715-0464

Communications-Electronics Repair Technician by Correspondence

Course Number: J19.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To present a knowledge of transistors and other semiconductor devices and of principles of communications-electronics equipment.

Instruction: The course provides instruction in the following electronic subjects: semiconductor devices and their application, power transistors, AM-FM radio transmitters and receivers, radio wave propagation, frequency synthesis, basic test equipment operation, satellite communication, multiplexing, digital circuit fundamentals, principles of radar, local and common battery telephone systems, and television principles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in basic, intermediate, and advanced electronics (6/79).

Related Occupation Codes: 286A.

AR-1715-0465

Audio-Visual Equipment Repair by Correspondence

Course Number: J45.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To assist students in developing abilities as an audio-visual equipment repairer; providing them with basic knowledge in photography, test equipment operation, shop practices, and maintenance concepts.

Instruction: The course concentrates in three main areas of instruction: photography (principles of photography including still picture camera equipment, flash photography, special photographic techniques), electronic test equipment (use of ohmmeters, voltmeters, ammeters, signal generators, and oscilloscopes) and shop practices and safety (identification, use and care of common hand tools used in the servicing of audio-visual equipment and safety practices as well as basic first aid).

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics or electromechanical (6/79).

Related Occupation Codes: 41E.

AR-1715-0466

ADMSE Repair by Correspondence

Course Number: J32.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide a working knowledge of the fundamentals of automatic data processing equipment and the techniques required to perform all levels of maintenance on the overseas AUTODIN.

Instruction: This correspondence course provides instruction in basic electronics. Theory of semiconductors and their application in amplifiers, oscillators, power supply regulation, modulation and demodulation are covered in great detail. Timing circuits and digital circuit fundamentals are covered along with punched card operation. The course also gives instruction in the operation of numerous types of multimeters and oscilloscopes and their uses in troubleshooting of the above equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics, 1 in operation of test equipment, 1 in digital electronics (9/79).

Related Occupation Codes: 34F.

AR-1715-0467

Avionic Navigation and Flight Control Equipment Repair by Correspondence

Course Number: J36.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide a working knowledge of principles, procedures and test equipment required to perform maintenance on electronic navigation and automatic flight control equipment.

Instruction: This correspondence course provides instruction in electricity and electronics theory and application. Electron tube theory and application to basic electronic circuitry is provided. Semiconductor devices theory and application, uses and applications of numerous types of test equipment, and troubleshooting techniques as applied to avionic navigation and flight control equipment are included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics theory and application, 2 in operation and use of test equipment (9/79). Course includes a proctored end-of-course examination.

Related Occupation Codes: 35M.

AR-1715-0468

Avionic Special Equipment Repair by Correspondence

Course Number: J38.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To present a working knowledge of all the techniques required to support the maintenance on airborne radar systems operating in the microwave frequencies.

Instruction: This correspondence course provides instruction in the fundamental theory of electricity and electronics and their application to radar principles and equipment. Electron tubes theory and applications as well as semiconductor device theory and applications are covered. Course presents principles of radar transmitters and receivers along with digital fundamentals. Numerous types of test equipment theories, use, and application to the troubleshooting techniques of radar systems are covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in electronics theory and application, 2 in test equipment operation and application (9/79).

Related Occupation Codes: 35R.

AR-1715-0469

Electronic Switching Systems Repair by Correspondence

Course Number: J44.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to repair and maintain the tactical telephone communication systems used in the field.

Instruction: This course gives instruction in basic electricity and electronics theory and application. Theory of semiconductor devices and their applications is covered. Communication fundamentals and the troubleshooting, repair and maintenance of tactical telephone communication systems is covered. Operation and use of test equipment necessary to carry on these functions is also covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics theory and application (9/79). Credit recommended is based on completion of proctored end-of-course examination.

Related Occupation Codes: 36L.

AR-1715-0470

Dial/Manual Central Office Repair by Correspondence

Course Number: J43.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 260 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install, operate and perform maintenance on dial and manual central office equipment.

Instruction: Course provides instruction in fundamentals of electricity and electronic theory. Electron tube and semiconductor devices theory and their application in electronic circuits are covered in great detail. Telephone systems theory and installation as well as troubleshooting and repair are covered. Some of the systems covered are local battery telephone, common battery, telephone systems, step-by-step dial central office, XY dial central office.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics theory and application, 10 in telephone communication systems (9/79). Course includes proctored end-of-course examination.

Related Occupation Codes: 36H.

AR-1715-0471

Basic Electronics by Correspondence

Course Number: I67.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 52 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the basic electronic concepts necessary to enter the various career areas in electronics.

Instruction: Course provides instruction in electron tubes and their applications. Semiconductor devices and their applications in amplifiers, oscillators, power supplies, regulation, pulse and switching circuits as well as AM and FM modulators and demodulations are covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics (9/79). Course includes proctored end-of-course examination.

AR-1715-0472

COMSEC Equipment Repair Technician by Correspondence

Course Number: I83.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum of 163 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide a knowledge of semiconductors, transistors teletypewriter equipment. Machine shop practices are presented to aid in the repair of the hardware involved.

Instruction: The course provides instruction in semiconductor devices and the basic test equipment operation for the troubleshooting, repair and maintenance of teletypewriter equipment. Machine shop practices are also included to aid in the repair of the teletypewriter hardware involved.

Credit Recommendation: In the vocational certificate category, 2 semester hours in machine shop practices (6/79); in the lower-division baccalaureate/associate degree category, 2 in electronics, 2 in electromechanics (6/79).

Related Occupation Codes: 341A; 290A.

AR-1715-0473

Field General COMSEC Repair by Correspondence

Course Number: J24.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the information necessary to gain the skills required to use the test equipment in the troubleshooting and repair of field communications security equipment.

Instruction: Course provides correspondence instruction in basic electricity, semiconductor devices and their various applications in electronic circuits. Instruction in digital fundamentals is also provided.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics, 1 in the operation of test equipment (9/79). Course includes proctored end-of-course examination.

Related Occupation Codes: 31S.

AR-1715-0474

COMMUNICATIONS-ELECTRONICS ENGINEERING TRACK 27 BY CORRESPONDENCE

Course Number: J15.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To prepare the signal officer to design, develop, engineer, test, construct, install and system integrate transmission switching, terminal and input/output communications equipment to include automatic data processing communications-electronics support.

Instruction: This course is designed to provide the student with knowledge related to the generation, transmission, and reception of radio signals. Presentation of the materials begins with a basic coverage of DC and AC circuits and proceeds through studies of radio transmitters, receivers, radio wave propagation and integrated communication systems. Included also in this course are detailed studies pertaining to telephone central office systems and equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in electronics in an applied science cirriculum, 3 in telephony in an applied science curriculum (6/79).

AR-1715-0475

AVIONIC EQUIPMENT MAINTENANCE SUPERVISOR BY CORRESPONDENCE

Course Number: J37.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 312 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge and skills required to apply advanced maintenance techniques and to supervise maintenance activities of avionic equipment and systems.

Instruction: This correspondence course provides instruction in basic electricity and electronics. Detailed instruction in electron tubes and their applications, semiconductor devices and their applications are provided. Subjects in radio wave propagation, frequency synthesis, AM transmitters and receivers, FM radio transmitters and receivers, and single sideband transmission are explained. Operation of various pieces of test equipment such as multimeters, oscilloscopes, signal generators, frequency counters and digital readout counters are covered. Principles of radar transmitters and receivers as well as radar indicators are covered. Digital circuit fundamentals are also presented.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in electronics theory and applications, 2 in operation and use of test equipment, 6 in communications and radar principles and application (9/79). Course credit recommendation is based on completion of proctored end-of-course examination.

Related Occupation Codes: 35P.

AR-1715-0476

FIELD SYSTEMS COMSEC REPAIR BY CORRESPONDENCE

Course Number: J25.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide skills and knowledge necessary to operate test equipment and to maintain field systems communication security equipment.

Instruction: Course provides instruction in the fundamentals of electricity theory and application. Semiconductor devices theories and their application in electronic circuits are covered. Digital circuit fundamentals, communication fundamentals, tactical TDM-PCM multichannel cable communications systems are all covered. Uses and operation procedures on various types of test equipment needed to test out the above equipment is also provided for in the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics theory and application, 1 in test equipment operation (9/79). Credit recommendation is based on completion of proctored end-of-course examination.

Related Occupation Codes: 31T.

AR-1715-0477

FIXED CIPHONY REPAIR BY CORRESPONDENCE

Course Number: J27.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge required to develop the skills necessary to operate test equipment and maintain fixed ciphony COMSEC equipment.

Instruction: This correspondence course provides instruction in electricity and electronic fundamental theory and application. Semiconductor device theory of application in basic circuits is explained in great detail. Use of test equipment and their application to troubleshooting of telephone systems is also covered. Digital circuits fundamentals is included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics, 1 in test equipment operation (9/79). Recommendation of credit is based on completion of proctored end-of-course examination.

Related Occupation Codes: 32F.

AR-1715-0478

ELECTRONIC INSTRUMENT REPAIR BY CORRESPONDENCE

Course Number: J33.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the skills and knowledge necessary to perform all degrees of maintenance on general purpose electronic test equipment such as multimeters, wattmeters, audio FM and AM signal generators, oscilloscopes and radio instruments.

Instruction: This correspondence course provides instruction in the fundamental theory of electricity and electronics and their applications to test equipment. Instruction in electron tubes and their application and theory of semiconductor devices and their application to the fundamental circuits found in the more general type of test equipment is covered. Operation and use of all types of electronic measuring instruments to include those that operate on digital principles are covered. This course provides for the complete foundation of electronic theory and principles for the precision measurement equipment laboratory technician.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electronic theory and application, 2 in operation and use of test equipment (9/79). Credit recommendation is based on completion of proctored end-of-course examination.

Related Occupation Codes: 35B.

AR-1715-0479

DIGITAL SUBSCRIBER TERMINAL EQUIPMENT (DSTE) REPAIR BY CORRESPONDENCE

Course Number: J31.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: This course provides the individual with the knowledge of the fundamentals of automatic data processing (ADP) equipment and the techniques required to troubleshoot, repair, and maintain automatic digital network (AUTODIN), and digital subscriber terminal equipment (DSTE).

Instruction: This course provides instruction in basic electricity and electronics. Theory on semiconductor devices and their applications are covered along with power transistors. Multiplexing, digital circuit fundamentals is covered, as is an introduction to computer programming. All types of the more common test equipment such as oscilloscopes, frequency counters, multimeters and signal generators are covered. Punched card operation is included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in electronics, 1 in use of test equipment, 1 in computer electronics (digital) (9/79). Course recommendation is based on proctored end-of-course examination.

Related Occupation Codes: 34F.

AR-1715-0480

FIELD RADIO MECHANIC BY CORRESPONDENCE

Course Number: J26.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the knowledge necessary to install, operate and perform preventive maintenance on field radio equipment.

Instruction: This correspondence course gives instruction in basic communication fundamentals and basic electricity to the extent necessary to operate and perform simple preventive maintenance procedures while performing the main function as radio operator.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication fundamentals and basic electricity (9/79). Credit recommendation is based on successful completion of proctored end-of-course examination.

Related Occupation Codes: 31V.

AR-1715-0481

Satellite Communications Ground Station Equipment Repair by Correspondence

Course Number: J23.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 260 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the training necessary to install, operate and program detailed maintenance of satellite communications ground station equipment.

Instruction: Course offers a complete understanding of basic electronics, timing circuits, microwave techniques, single side band transmitter, multiplexing, digital circuit fundamentals and the use of various pieces of the more common test equipment. Course also includes electron tubes and their applications in electronic circuits, semiconductor devices and their applications in electronic circuits; principles of FM transmitters and receivers, radio wave propagation, principles of radar timing circuits, radar indicators, and servo mechanisms.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in basic electronics and electrical, 10 in communication and radar principles, 1 in the use of test equipment (10/79). Course recommendation is based on completion of proctored end-of-course examination.

AR-1715-0482

Satellite Communications by Correspondence

Course Number: I70.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: Course provides the individual with the theories and techniques involved in satellite communications.

Instruction: This correspondence course provides instruction in semiconductor devices and their application in various electronic circuits. Digital multiplexing techniques and satellite acquisition and tracking are covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (solid state theory and applications and digital circuit fundamentals), 3 in satellite communication techniques (10/79). Course recommendation is based on completion of proctored end-of-course examination.

AR-1715-0483

Radio Fundamentals by Correspondence

Course Number: I68.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 104 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To provide the individual with the background knowledge necessary to maintain and repair various radio systems.

Instruction: This course provides instruction in communication fundamentals and various types of AM and FM transceivers. Instruction in radio wave propagation, single sideband transmission and frequency synthesis is also covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in radio communications (10/79). Credit recommendation is based on completion of proctored end-of-course examination.

AR-1715-0484

Fixed Cryptographic Equipment Repair by Correspondence

Course Number: J28.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: To teach the skills necessary to troubleshoot and maintain fixed cryptographic systems COMSEC equipment.

Instruction: This course covers the skills necessary to troubleshoot and maintain fixed cryptographic systems COMSEC equipment and includes electron tube test and application, semiconductor devices and applications, power transistors, electronic digital readout counter and oscilloscope operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in electronics, 1 in operation of test equipment (9/79). Course recommendation is based on completion of proctored end-of-course examination.

Related Occupation Codes: 32G.

AR-1715-0485

Avionic Communications Equipment Repair by Correspondence

Course Number: J35.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 1/80–Present.

Objectives: This course provides the individual with knowledge of electronics theory of operation on avionic communications equipment. The operating procedures for the test equipment necessary to check out, troubleshoot and align avionic communications equipment is also provided.

Instruction: This course provides instruction in fundamentals of electricity and electronics. Detailed instruction in electron tubes and semiconductor devices and their applications is included. Subjects in radio wave propagation, frequency synthesis, AM transmitters and receivers, FM radio transmitters and receivers, and single sideband transmissions are explored. Operation and use of various types of test equipment is taught and supervised on-the-job training is provided.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in electronics theory and application, 2 in operation and use of test equipment, 4 in communication electronics (9/79).

Related Occupation Codes: 35L.

AR-1715-0486

Pershing Missile Crewman

Course Number: 043-15E10; 15E10-OSUT.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5–13 weeks (206 hours).

Exhibit Dates: 2/79–Present.

Objectives: To provide the student with the skills, knowledge and experience required to perform the duties of a Pershing missile crewman.

Instruction: The student is instructed in the procedures required to set up a Pershing missile system and perform daily maintenance procedures. These tasks include assembling the missile sections and mounting it to the launcher, operating the power generator and laying cables. NOTE: The 13 week course has 8 weeks of basic training included.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (1/80).

Related Occupation Codes: 15E.

AR-1715-0487

Pershing Operator Maintenance Assistance

Course Number: 4F-214E-A; 121-21G10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 9 weeks (316 hours).

Exhibit Dates: 6/78–Present.

Objectives: To train students with a working knowledge of the assembly procedure, maintenance and operation of the Pershing missile and associated ground support equipment.

Instruction: The student is introduced to the major items of equipment that comprise the basic Pershing missile, its principle of operation, diagnostic test procedures, repair and maintenance methods. The student learns the function and purpose of each electrical and hydraulic subsystem, standard troubleshooting and repair procedures including the interpretation of computer diagnostic techniques to determine computer malfunctions. The course also includes basic 5 ton truck maintenance.

Credit Recommendation: In the vocational certificate category, 1 semester hour general technical elective (1/80), in the lower-division baccalaureate/associate degree category, 1 semester hour technical elective for students in a non-technical program (1/80).

Related Occupation Codes: 26G.

AR-1715-0488

Pershing System Maintenance

Course Number: 4F-214EB; 121-21G20.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7 weeks (255 hours).

Exhibit Dates: 8/77–Present.

Objectives: To train advanced students in the troubleshooting and effective repair techniques of both the manual and electrical components of the Pershing missile ground support equipment.

Instruction: Students are instructed in procedures for tracing AC and DC voltage levels and system signals to isolate faults and perform repair of electrical subsystems. Approximately 25% of the course is devoted to working knowledge of electronic devices and circuitry including DC waves and parallel circuits, AC and DC motor functional characteristics, solid state diode applications transistor biasing and functional operation and octal number conversions.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electric and electronic circuits (1/80), in the lower-division baccalaureate/associate degree category, 2 semester hours as a technical elective for students in a non-technical program (1/80).
Related Occupation Codes: 21G.

AR-1715-0489

1. Tactical Communications Chief Noncommissioned Officers (NCO) Advanced
2. Tactical Electronic Equipment Maintenance Noncommissioned Officers (NCO) Advanced (USAFAS)

Course Number: *Version 1:* 101-31V40. *Version 2:* 1-31-C42B.
Location: Field Artillery School, Fort Sill, OK.
Length: *Version 1:* 7 weeks (246 hours). *Version 2:* 10 weeks (346 hours).
Exhibit Dates: *Version 1:* 3/79–Present. *Version 2:* 11/75–2/79.
Objectives: To prepare the NCO for the responsibility of organizing and supervising a complete field artillery communication system including wire, FM radio and cryptograph operations.
Instruction: *All Versions:* Through lecture, support and practical demonstrations the student is taught communication system principles, equipment maintenance procedures and repair of equipment. Course includes work with test equipment. *Version 1:* Stresses organization, supervision and preventative maintenance with less emphasis on troubleshooting.
Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in electronic troubleshooting and laboratory (1/80); in the lower-division baccalaureate/associate degree category, 2 semester hours in supervision and human services (1/80). *Version 2:* In the vocational certificate category, 2 semester hours in electronic troubleshooting and laboratory (1/80); In the lower-division baccalaureate/associate degree category, 2 semester hours in supervision and human relations (1/80).

AR-1715-0490

Weapons Support Radar AN/TPS-58

Course Number: 104-26BIT.
Location: Field Artillery School, Ft. Sill, OK.
Length: Self-paced 3–7 weeks (90–240 hours).
Exhibit Dates: 8/78–Present.
Objectives: To train the radar operator to perform operational tests, isolate malfunctions, and repair minor malfunctions in the radar set, plotting board, power supply and digital display.
Instruction: Students learn diagnostic test procedures and proper use of test equipment to troubleshoot, align and repair the major components of the radar installation. The student is evaluated by demonstrating his troubleshooting skills prior to graduation.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics system troubleshooting (1/80).
Related Occupation Codes: 26B.

AR-1715-0491

Weapons Support Radar Repairer

Course Number: 104-26B10.
Location: Field Artillery School, Ft. Sill, OK.
Length: Self-paced 20–31 weeks (Ft. Sill, OK hours).
Exhibit Dates: 8/78–Present.
Objectives: To provide enlisted students with knowledge to properly use test equipment in diagnostic testing to pinpoint malfunctions.
Instruction: Course includes self-paced instruction, laboratories, and performance testing using test equipment and training modules capable of accepting bugs. Instruction covers preventative maintenance procedures for a wide range of radar and associated equipment, solid state circuits and wave guide.
Credit Recommendation: In the vocational certificate category, 5 semester hours in electronic system troubleshooting and high frequency circuits (1/80). in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic system troubleshooting, high frequency circuits and electronics laboratory (1/80).
Related Occupation Codes: 26B.

AR-1715-0492

Tactical Communications Chief

Course Number: 1-31-C40B/31V30.
Location: Artillery School, Ft. Sill, OK.
Length: 9 weeks (308 hours).
Exhibit Dates: 4/78–Present.
Objectives: To train field radio mechanics as tactical communications chiefs.
Instruction: Lectures and practical exercises on the installation and operation of AM or FM radio telephone equipment, security standards, preventative maintenance, basic troubleshooting with a multimeter, radioteletypewriter procedures; message center procedures, applied communications tactical subjects, and map reading including topographic symbols and map measurements.
Credit Recommendation: Pending evaluation.
Related Occupation Codes: 31V.

AR-1715-0493

Field Artillery Radar Operator (AN/TPS-58)

Course Number: 221-17B1T.
Location: Field Artillery School, Ft. Sill, OK.
Length: Self-paced 2 weeks (Ft. Sill, OK hours).
Exhibit Dates: 2/79–Present.
Objectives: To train enlisted personnel to operate and maintain field artillery radar.
Instruction: Self-paced instruction and practical exercises in field artillery radar operation and preventative maintenance including radar site evaluation, equipment emplacement, adjustment, calibration and orientation.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/80).

AR-1715-0494

Air Defense Artillery Command and Control Officer

Course Number: 2F-14G.
Location: Air Defense School, Ft. Bliss, TX.
Length: 10 weeks (341–347 hours).
Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 7/77–2/78.
Objectives: To provide commissioned officers with a knowledge of the characteristics, operations and functions of the AN/TSQ-73 missile minder command and control system.
Instruction: Officers will be able to assume duty as an operations officer/tactical director in a Nike Hercules or Improved Hawk ADA battalion or group after studying digital fundamentals, system initialization, console operations and radar interface equipment and simulation.
Credit Recommendation: Pending evaluation.

AR-1715-0495

Vulcan/Forward Area Alerting Radar Mechanic
(Vulcan/FAAR Mechanic)

Course Number: 121-24M10.
Location: Air Defense School, Ft. Bliss, TX.
Length: 20 weeks (726 hours).
Exhibit Dates: 6/78–Present.
Objectives: To provide knowledge to perform organizational maintenance on Vulcan weapons systems/forward area alerting radar.
Instruction: Phase I includes missile electronic fundamentals, digital fundamentals, organizational maintenance of the radar set. Phase II covers forward area alerting radar and is self-paced.
Credit Recommendation: Pending evaluation

AR-1715-0496

Improved Hawk Continuous Wave (CW) Radar Repairer

Course Number: 104-24K1T/2T/3T.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: 2 weeks (61 hours).
Exhibit Dates: 1/80–Present.
Objectives: To provide the knowledge and techniques for inspecting, testing and repairing the Improved Hawk PIP equipment associated with continuous wave radar and associated test equipment at direct and general support levels.
Instruction: Topics include repair high voltage power supply and repair ICWAR main power and power supply circuits and transmitter circuits.
Credit Recommendation: Pending evaluation.

AR-1715-0497

Improved Hawk Fire Control Repairer Transition (PIP)

Course Number: 104-24H1T/2T/3T.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: 9–10 weeks (293 hours).
Exhibit Dates: 1/80–Present.
Objectives: To provide the student with knowledge and techniques for inspecting, testing, and repairing the Improved Hawk IBCC, IPCP and ICC.
Instruction: Course covers fire control equipment including transmit and receive data processing, SDE receiver and transmit circuits, memory addressing and symbol generator and intensity gate generation circuits.
Credit Recommendation: Pending evaluation.

AR-1715-0498

Ground Surveillance Radar Crewman

Course Number: 221-17K10.
Location: Intelligence School, Ft. Huachuca, AZ.

Length: 4-5 weeks (120-160 hours).
Exhibit Dates: 2/80-Present.

Objectives: To train personnel in the operation and maintenance of ground surveillance radar sets and associated equipment.

Instruction: The course covers map reading and how to install, operate and disassemble two different radar sets. Operator maintenance of the sets is covered with discussion of multimeters and batteries; also covered are procedures for radio and telephone communications.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electromechanical maintenance(6/79); in the lower-division baccalaureate/associate degree category, 1 in electromechanical maintenance, 1 in map reading (6/79).

AR-1715-0499

Improved Hawk Information and Coordination Central Maintenance Transition (PIP)

Course Number: 104-24G1T/2T/3T.
Location: Air Defense School, Ft. Bliss, TX.
Length: 5 weeks (159 hours).
Exhibit Dates: 10/79-Present.

Objectives: To provide personnel with knowledge of organizational maintenance for the Product Improvement Program (PIP) of the Improved Continuous Wave Acquisition Radar.

Instruction: Includes use of test equipment and procedures to assume that the equipment operates within prescribed tolerances; also functional theory of operation of the equipment, use of diagnostic equipment and diagnostic procedures, troubleshooting, and organizational level repair.

Credit Recommendation: Pending evaluation.

AR-1715-0500

Tactical Fire Direction System (TACFIRE) Direct Support Maintenance

Course Number: 4B-F16; 113-F1.
Location: Field Artillery School, Ft. Sill, OK.
Length: 12-13 weeks (459-460 hours).
Exhibit Dates: 11/79-Present.

Objectives: To train maintenance personnel in the techniques and concepts pertaining to maintenance of the TACFIRE system.

Instruction: Course includes system initialization, computer maintenance and basics, communications equipment and artillery control console.

Credit Recommendation: Pending evaluation.

AR-1715-0501

Operation of the Automated Multimedia Exchange (AMME) System

Course Number: None.
Location: Communications Electronics Installation, Ft. Huachuca, AZ.
Length: 2 weeks (80 hours).
Exhibit Dates: 12/79-Present.

Objectives: To provide enlisted personnel with a specialized training on this system.

Instruction: Includes message entry, traffic management, and operation equipment maintenance. Top secret clearance required.

Credit Recommendation: Pending evaluation.

AR-1715-0502

Electronic Warfare (EW)/Intercept Systems Repairer, Basic Technical

Course Number: 102-33S30.
Location: Intelligence School, Ft. Devens, MA.
Length: 19 weeks (632 hours).
Exhibit Dates: 12/79-Present.

Objectives: To prepare selected electronics maintenance personnel for assumption of mid-level noncommissioned officer technical and managerial duties.

Instruction: Course begins with advanced electromagnetic wave and signal and spectra analysis, theory and their practical applications to electronic equipment. Digital electronics is examined in depth, including digital theory, computer language, microprocessors, computers and computer architecture. Digital theory is then applied to understanding troubleshooting and aligning all types of digital equipment, including remotely controlled systems and advanced transmission identification equipment. Use of test and measurement equipment is stressed.

Credit Recommendation: Pending evaluation.

AR-1715-0503

Aerial Surveillance Sensor Repairer

Course Number: 104-26E10.
Location: Intelligence School, Ft. Huachuca, AZ.
Length: 47 weeks (1912 hours).
Exhibit Dates: 5/79-Present.

Objectives: To train enlisted personnel with functional knowledge to maintain aerial surveillance sensing equipment.

Instruction: Lectures and practical application in electronics and mechanics in maintaining aerial survey sensor equipment. Course includes the study of electronic devices, testing equipment, controls and servos, mechanical systems, optics, photography, digital circuits, troubleshooting, machine tooling and microwaves.

Credit Recommendation: In the vocational certificate category, 2 semester hours in photographic repair, 2 in machine tool operations, 3 in introduction to electronics, 1 in technical mathematics, 2 in AC/DC theory, 2 in solid state circuits, 2 in troubleshooting techniques, 2 in digital circuits and, for National Guard and reserve personnel, 2 in vacuum tube circuits (5/79); in the lower-division baccalaureate/associate degree category, 3 in microwaves, 3 in solid state, 3 in digital, 2 in computer circuits, 3 in electro-mechanical and industrial control circuits, 2 in basic photography, 2 in optics, 4 in electronic circuits, 4 in troubleshooting electronic and electro-mechanical circuits and additional 3 in introduction to electronics, 1 in technical mathematics, 2 in AC/DC theory, 2 in solid-state circuits, 2 in troubleshooting techniques, 2 in digital circuits and, for National Guard and reserve personnel, 2 in vacuum tube circuits (5/79).

Related Occupation Codes: 26E.

AR-1715-0504

Communications Technical Control Center

Course Number: 622-ASIV4.
Location: Signal School, Ft. Gordon, GA.
Length: 5 weeks (177 hours).
Exhibit Dates: 4/79-Present.

Objectives: To provide enlisted personnel with knowledge to troubleshoot, repair and maintain the control center.

Instruction: Course covers such subjects as soldering and unsoldering, equipment evaluation procedures, troubleshooting the attenuator and line amplifier.

Credit Recommendation: Pending evaluation.

AR-1716-0001

Textile Repair

Course Number: 760-43J20; 760-461.1; 10-R-461.1; 10-E-15.
Location: Quartermaster School, Ft. Lee, VA.
Length: 8 weeks (320 hours).
Exhibit Dates: 3/56-Present.

Objectives: To train personnel to alter and repair individual clothing, textile items, and raincoats.

Instruction: Lectures and practical exercises in textile repair, including Army maintenance system; inspecting, marking, classifying, resizing, and fitting of clothing; hand sewing; operator maintenance and adjustments of clothing and textile repair sewing machines; machine sewing; clothing and textile shop operation; mobile clothing trainer operations; and moral leadership and responsibility.

Credit Recommendation: In the vocational certificate category, 4 semester hours in power sewing machines (6/74).

Related Occupation Codes: 43A; 43J.

AR-1716-0002

Textile Repair, Skill Development Base

Course Number: 760-43J40-I.
Location: Quartermaster School, Ft. Lee, VA.
Length: 13 weeks (461 hours).
Exhibit Dates: 10/68-Present.

Objectives: To train textile repairmen to supervise textile, canvas, and shoe repair operations and maintenance.

Instruction: Lectures and practical exercises in nomenclature; identification and repair methods used on canvas, tentage, webbed equipage, and shoes; and practical experience in repair methods and equipment maintenance and operation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in power sewing machines, 3 in shoemaking, 1 in textile fabrication (6/74).

Related Occupation Codes: 43J; 43M.

AR-1716-0003

Canvas and Webbed Equipage Repair (Canvas and Leather Repair)

Course Number: 760-43K20; 10-R-462.1; 10-E-11.
Location: Quartermaster School, Ft. Lee, VA.
Length: 7-8 weeks (245-282 hours).
Exhibit Dates: 3/56-Present.

Objectives: To train enlisted personnel in the duties and skills required to inspect, mark, repair and store tentage, body armor, and canvas and webbed items.

Instruction: Lectures and practical exercises in canvas and webbed equipage repair. Topics include the use of sewing machines; the repair of canvas items, including body armor, seats of jeeps, and tents; mobile textile trailer operations; and the operation of a canvas and webbed repair shop.

Credit Recommendation: In the vocational certificate category, 2 semester hours in power sewing machines, 1 in upholstery, 2 in textile fabrication (6/74).

Related Occupation Codes: 43K.

AR-1716-0004

1. LAUNDRY AND DRYCLEANING OPERATIONS (NAVY)
2. LAUNDRY AND DRYCLEANING OPERATIONS (NAVY)

Course Number: None.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (200 hours). *Version 2:* 6 weeks (264 hours).

Exhibit Dates: *Version 1:* 10/70–Present. *Version 2:* 4/63–9/70.

Objectives: To train enlisted personnel to dry-clean and launder and to operate dry-cleaning equipment.

Instruction: Lectures and practical exercises in laundry and dry cleaning, and in dry-cleaning equipment operation, including marking, finishing, and assembly of clothing, use of various chemicals and equipment, preventive maintenance of dry-cleaning equipment, and fiber and fabric identification, construction, and chemical treatment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in laundry and dry cleaning (6/74). *Version 2:* In the vocational certificate category, 4 semester hours in laundry and dry cleaning (6/74).

AR-1716-0005

LAUNDRY, BATH AND IMPREGNATION
(Laundry and Impregnation)

Course Number: *All Versions:* 840-57E20. *Version 2:* 10-R-546;1 10-E-9.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 5 weeks (167 hours). *Version 2:* 7–8 weeks (240–280 hours).

Exhibit Dates: *Version 1:* 5/74–Present. *Version 2:* 3/56–4/74.

Objectives: To train enlisted personnel as laundry, bath, and impregnation specialists.

Instruction: *All Versions:* Lectures and practical exercises in laundry, bath and impregnation, including laundry and impregnating procedures; maintenance procedures; operation and operator maintenance of field bath and delousing equipment; and operation and maintenance of mobile laundry equipment. *Version 2:* Topics include operation and operator maintenance of dry-cleaning equipment and dry-cleaning procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in laundry operation (6/75). *Version 2:* In the vocational certificate category, 2 semester hours in laundry operations, 1 in dry cleaning (5/74).

Related Occupation Codes: 57E.

AR-1716-0006

LAUNDRY AND FUMIGATION OFFICER

Course Number: 10-O-19.

Location: Quartermaster School, Ft. Lee, VA.

Length: 6 weeks (210 hours).

Exhibit Dates: 3/56–12/68.

Objectives: To train selected quartermaster officers to supervise and direct the operation of mobile, semimobile, or fixed laundries; dry-cleaning plants; shower-bath units; or fumigation and delousing facilities.

Instruction: Lectures and practical exercises in the supervision of mobile, semimobile, or fixed laundries; dry-cleaning plants; shower-bath units; or fumigation and delousing facilities. Course includes laundry and dry-cleaning procedures; operation of a fixed dry-cleaning plant; mobile laundry equipment operation and maintenance; and fumigation and bath operations.

Credit Recommendation: In the vocational certificate category, 4 semester hours in laundry and dry-cleaning management (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in laundry and dry-cleaning management (8/74).

AR-1717-0001

MATERIEL MAINTENANCE MANAGEMENT INTERN PROGRAM

Course Number: None.

Location: DARCOM Intern Training Center, Red River Depot, Texarkana, TX.

Length: 48 weeks (1,920 hours).

Exhibit Dates: 7/68–Present.

Objectives: To provide students with training which will enhance their ability to perform effectively in various Army maintenance management positions.

Instruction: Lectures, conferences, cases, practical exercises, guest speakers, field trips, on-the-job training, demonstrations, group discussions, and research covering plans, programs, and budgets as they relate to maintenance control systems, control techniques, management of maintenance operations, the relationship of maintenance to other activities, and the importance of the human element in management. Topics include general management, production planning and control, maintenance management, and introduction to blueprint reading, automotive mechanics, and basic electricity.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in introduction to blueprint reading, automotive mechanics, and basic electricity (12/76); in the upper-division baccalaureate category, 6 semester hours in general management, 5 in production planning and control, 6 in maintenance management (12/76).

AR-1717-0002

AIR DEFENSE MISSILE REPAIR (23-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED
(Air Defense (AD-CMF) Noncommissioned Officer (NCO) Advanced)

Course Number: 1-23-C42B; 1-AD-C42B.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 10–12 weeks (318–442 hours).

Exhibit Dates: *Version 1:* 12/77–Present. *Version 2:* 4/73–11/77.

Objectives: To provide noncommissioned officers with advanced training in management techniques and air defense operations.

Instruction: *Version 1:* Lectures and practical exercises in management, materials and supply handling and control, data processing, Nike Hercules and Hawk Missile system analysis and air defense operations and intelligence. *Version 2:* Lectures and practical exercises in management, data processing, Nike Hercules and Hawk missile system analysis, and air defense operations and intelligence.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours maintenance management, 2 in materials/ supply handling and control and 1 in communicative arts (8/79). *All Versions:* Credit is not recommended because of the limited technical nature of the course (6/75).

Related Occupation Codes: 23V; 23W; 24V; 00Z; 22K; 22L; 22N; 23Q; 23N; 23S; 23T; 23U; 24H; 24J; 24K; 46D; 24L; 26H.

AR-1717-0003

NUCLEAR WEAPONS MAINTENANCE WARRANT OFFICER ADVANCED

Course Number: 4-9-C32; 4-9-C32E.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 9 weeks (320 hours).

Exhibit Dates: 1/72–10/76.

Objectives: To provide warrant officers with a working knowledge of nuclear weapons management.

Instruction: Conferences on nuclear weapons, management, special warfare operations, inspections, and quality assurance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in management (2/74); in the upper-division baccalaureate category, 2 semester hours in management (2/74).

AR-1717-0004

AIRPLANE TECHNICAL INSPECTOR
(Fixed Wing Technical Inspector)

Course Number: *All Versions:* 600-67F20. *Version 2:* 600-679;4 55-R-679.4.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 11 weeks (372 hours). *Version 2:* 9 weeks (318–334 hours).

Exhibit Dates: *Version 1:* 8/74–Present. *Version 2:* 6/65–7/74.

Objectives: To train enlisted personnel in the techniques and procedures of technical inspection of fixed-wing light aircraft.

Instruction: Lectures and practical exercises in maintenance management, maintenance shop operations, engine troubleshooting, and aircraft inspections on fixed-wing light aircraft.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance management (6/75). *Version 2:* In the vocational certificate category, 4 semester hours in aircraft inspections and maintenance management (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft inspections and maintenance management (3/74); in the upper-division baccalaureate category, 2 semester hours in aircraft inspections and maintenance management (3/74).

Related Occupation Codes: 67B; 67C; 67G; 67H; 67F; 67Z.

AR-1717-0005

AIRCRAFT MAINTENANCE (AV-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 6-AV-C42.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 9–10 weeks (325–345 hours). *Version 2:* 12 weeks (363 hours).

Exhibit Dates: *Version 1:* 12/73–Present. *Version 2:* 8/72–11/73.

Objectives: To provide noncommissioned officers with advanced training in aircraft maintenance management.

Instruction: Lectures and practical exercises in military operations; military management, including personnel, records, and logistics; aviation maintenance management and supervision; and aviation maintenance.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in aircraft maintenance management (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance management (3/74); in the upper-division baccalaureate category, credit in aircraft maintenance management on the basis of institutional evaluation (3/74).

Related Occupation Codes: 67B; 67C; 67F; 67G; 67H; 67M; 67N; 67P; 67U; 67V; 67W; 67X; 67Y; 67Z; 68B; 68D; 68E; 68F; 68G; 68H.

AR-1717-0006

Aircraft Maintenance (AV-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 6-AV-C40.

Location: Transportation School, Ft. Eustis, VA.

Length: 9–12 weeks (321–403 hours).

Exhibit Dates: 7/72–Present.

Objectives: To provide enlisted personnel with training in aviation maintenance management.

Instruction: Lectures and practical training in aviation systems maintenance, military operations, leadership training, maintenance management, airframe repair, turbine engines, and aircraft repair performance tests.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in aviation maintenance management, and 3 in aircraft systems maintenance (6/75).

Related Occupation Codes: 67B; 67N; 67C; 67G; 67H; 67P; 67T; 67U; 67X; 67Y; 67V; 67M; 68B; 68D; 68E; 68F; 68G; 68H.

AR-1717-0007

OV-1 Airplane Repair Specialist Candidate

(OV-1 Airplane Repair, Skill Development Base)

Course Number: 600-67H20-I.

Location: Transportation School, Ft. Eustis, VA.

Length: 12–13 weeks (480–534 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train aircraft repairmen to maintain and repair OV-1 aircraft.

Instruction: Lectures and practical exercises in leadership, maintenance management, and familiarization with the OV-1 aircraft.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aviation maintenance management (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management (3/74); in the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (3/74).

Related Occupation Codes: 67H.

AR-1717-0008

OH-13/OH-23 Helicopter Repairman, Skill Development Base

Course Number: 600-67M20-I.

Location: Aviation School, Ft. Rucker, AL.

Length: 13 weeks (513 hours).

Exhibit Dates: 1/69–Present.

Objectives: To train enlisted personnel in OH-13/OH-23 helicopter repair and maintenance management.

Instruction: Lectures and practical exercises in leadership; communication skills; aviation maintenance management; OH-13/OH-23 helicopter inspection, maintenance, and repair; and aircraft life support equipment inspection, maintenance, and repair procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aviation maintenance management (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management (3/74); in the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (3/74).

Related Occupation Codes: 67M; 67W.

AR-1717-0009

1. Aircraft Maintenance Supervisor
2. Aircraft Maintenance Supervisor
3. Army Aviation Maintenance Management

Course Number: *Version 1:* 600-67Z40. *Version 3:* 55-R-679;6 55-R-671;7 55-R-672;7 55-R-673;7 55-R-674.7.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8 weeks (273 hours). *Version 2:* 5 weeks (175–181 hours). *Version 3:* 8 weeks (282 hours).

Exhibit Dates: *Version 1:* 9/66–12/68. *Version 2:* 7/60–8/66. *Version 3:* 3/58–6/60.

Objectives: To provide selected enlisted personnel with advanced training in aviation maintenance management, production, and quality control.

Instruction: Lectures and practical exercises in management, general and technical inspection, maintenance procedures, aircraft components maintenance and repair, planning and controls, and shop management.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in shop management (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in shop management (2/74); in the upper-division baccalaureate category, 2 semester hours in shop management (2/74). *Version 2:* In the vocational certificate category, 3 semester hours in shop management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in shop management (2/74); in the upper-division baccalaureate category, 2 semester hours in shop management (2/74). *Version 3:* In the vocational certificate category, 4 semester hours in shop management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in shop management (2/74); in the upper-division baccalaureate category, 2 semester hours in shop management (2/74).

Related Occupation Codes: 67F; 67W; 67Z.

AR-1717-0010

1. Helicopter Technical Inspector
   (Rotary Wing Technical Inspector)
2. Rotary Wing Technical Inspector

Course Number: *Version 1:* 600-67W20. *Version 2:* 600-679.5.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 11 weeks (395–400 hours). *Version 2:* 9 weeks (322 hours).

Exhibit Dates: *Version 1:* 12/67–Present. *Version 2:* 6/65–11/67.

Objectives: To provide helicopter repairmen with training in rotary-wing aircraft technical inspection procedures and techniques.

Instruction: Lectures and practical exercises in rotary-wing aircraft technical inspection procedures and techniques, including aviation maintenance management procedures, aircraft hydraulic and electrical systems inspection, precision measuring tools and technical drawings usage, aircraft structures, instrument systems inspection, engine troubleshooting procedures and equipment operation, engine diagnosis and testing, and functional testing of helicopters.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft maintenance management (6/75). *Version 2:* In the vocational certificate category, 6 semester hours in helicopter and engine maintenance management, shop management, or inspection procedures (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter and engine maintenance management, shop management, or inspection procedures (2/74).

Related Occupation Codes: 67N; 67Q; 67S; 67T; 67U; 67V; 67W; 67X; 67Y; 67Z.

AR-1717-0011

1. Electronics Maintenance Officer
2. Signal Equipment Maintenance and Repair Officer
3. Signal Equipment Maintenance and Repair Officer
   (Signal Material Maintenance Officer)

Course Number: *Version 1:* 4C-72A; 4C-4825; 4C-286A. *Version 2:* 4C-4415; 4C-286A. *Version 3:* 11-B-4415; 11-B-286A; 11-B-4415; 11-O-24.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *All Versions:* Signal School, Ft. Monmouth, NJ.

Length: *Version 1:* 9–11 weeks (294–394 hours). *Version 2:* 10 weeks (334–364 hours). *Version 3:* 8 weeks (280–292 hours).

Exhibit Dates: *Version 1:* 4/71–Present. *Version 2:* 4/65–3/71. *Version 3:* 7/55–3/65.

Objectives: To train commissioned officers and warrant officers to supervise direct or general support maintenance on electronic equipment.

Instruction: *All Versions:* Lectures and practical exercises in maintenance management, direct and general support maintenance, and signal maintenance. Much of the instruction is in nontechnical material. *Version 1:* Includes electrical and electronics fundamentals and communications and electronic equipment, including telephone, radio, teletype, radar, microwave and avionics equipment. *Version 2:* Includes electrical and electronics fundamentals.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electricity, and additional credit in electricity on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electricity on the basis of institutional evaluation (3/74). *Version 2:* In the vocational certificate category, 3 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management (12/68); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (3/74). *Version 3:* In the lower-division baccalaureate/associate degree category, 4 semester hours in maintenance management (12/68).

Related Occupation Codes: 286A; 286A; 281A; 282A.

AR-1717-0012

Petroleum (PT-CMF)
Noncommissioned Officer (NCO)
Basic (F6W)

Course Number: 8-PT-C40.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (422 hours).

Exhibit Dates: 11/72–Present.

Objectives: To train junior noncommissioned officers to perform as senior noncommissioned officers in basic petroleum products management.

Instruction: Lectures and practical exercises in petroleum products management, including leadership, logistical combat support, communicative techniques, class III supply point operations, terminal operations, military pipeline operations, general petroleum subjects and ground vehicles, laboratory management and maintenance of laboratory equipment, evaluation of laboratory test reports, and operation, maintenance, and troubleshooting of CFR test engines.

Credit Recommendation: In the vocational certificate category, 8 semester hours in industrial management (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in industrial management (6/74); in the upper-division baccalaureate category, 3 semester hours in industrial management (6/74).

Related Occupation Codes: 76W.

AR-1717-0013

Petroleum (PT-CMF)
Noncommissioned Officer (NCO)
Basic (92C)

Course Number: 8-PT-C40.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (294 hours).

Exhibit Dates: 11/72–Present.

Objectives: To train junior noncommissioned officers to perform as senior noncommissioned officers in basic petroleum products management.

Instruction: Lectures and practical exercises in petroleum products management, including leadership, logistical combat support, communicative techniques, class III supply point operations, terminal operations, military pipeline operations, general petroleum subjects and ground vehicles, laboratory management and maintenance of laboratory equipment, evaluation of laboratory test reports, and operation, maintenance, and troubleshooting of CFR test engines.

Credit Recommendation: In the vocational certificate category, 6 semester hours as an elective in industrial management (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours as an elective in industrial management (6/74); in the upper-division baccalaureate category, 3 semester hours as an elective in industrial management (6/74).

Related Occupation Codes: 92C.

AR-1717-0014

Armament Maintenance and Repair
Officer

Course Number: *All Versions:* 4E-4808. *Version 2:* 9-B-4808.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 10–14 weeks (352–441 hours). *Version 2:* 6–7 weeks (210–256 hours).

Exhibit Dates: *Version 1:* 10/70–Present. *Version 2:* 10/56–9/70.

Objectives: To train commissioned and warrant officers to supervise repair and maintenance of small arms, artillery and artillery fire control materiel.

Instruction: *All Versions:* Lectures and practical exercises in the supervision of the repair and maintenance of small arms, artillery and artillery fire control materiel, including maintenance management, shop operation, communication equipment, and aircraft armament subsystems; and in inspection, malfunction diagnosis, disassembly, reassembly and testing of rifles, machine guns, tank turrets, artillery, recoilless rifles, and air defense and fire direction equipment. *Version 1:* Includes maintenance operations. *Version 2:* Includes bore evaluation and range firing.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial management (5/74). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in industrial management (5/74).

AR-1717-0015

Fixed Plant Communications
Equipment Maintenance (CM-CMF) NCO Advanced

Course Number: 1-CM-C42.

Location: Signal School, Ft. Monmouth, NJ.

Length: 11 weeks (383 hours).

Exhibit Dates: 7/73–Present.

Objectives: To train experienced personnel to maintain and repair fixed-plant communications equipment.

Instruction: Lectures and practical exercises in fixed-plant communications equipment maintenance, including general military subjects, command and staff operations, combined arms, special weapons and CBR operations, applied communications, leadership, administration and management, combat service support operations, logistics, satellite communications, communications security, fixed-station radio communications, data processing and data communications, and dial exchange equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in administrative management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in administrative management (6/74); in the upper-division baccalaureate category, 2 semester hours in administrative management (6/74).

Related Occupation Codes: 26V; 32D; 32E; 32F; 32G; 32H; 32Z.

AR-1717-0016

Communications Operations (CO-CMF)
NCO Basic

Course Number: 5-CO-C40A.

Location: Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA.

Length: 8–12 weeks (286–475 hours).

Exhibit Dates: 2/73–Present.

Objectives: To qualify enlisted personnel as noncommissioned officers in communications operations.

Instruction: Lectures and practical exercises in communications operations, including leadership; career management and administrative technical training; radio relay and carrier, communications center, data terminal, radio teletypewriter, field radio, field wire, antenna, lineman, cable splicer, switchboard, and circuit controller operations; and functional and field training.

Credit Recommendation: In the vocational certificate category, 1 semester hour in leadership (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in leadership (6/74).

Related Occupation Codes: 05B; 05C; 05E; 05F.

AR-1717-0017

Combat Area Surveillance Radar
Repair, Specialist Candidate
(Combat Area Surveillance Radar Repair,
Skill Development Base)

Course Number: 104-26C30-I.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12 weeks (584–624 hours).

Exhibit Dates: 10/68–Present.

Objectives: To qualify enlisted personnel as supervisors or technicians in combat area surveillance radar repair.

Instruction: Lectures on the duties and responsibilities of supervisors and technicians in combat area surveillance radar repair. Course includes leadership principles, maintenance and supply management, shop organization and administration, installation requirements, direct and general support maintenance, and techniques of military instruction.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supervisory training or human relations (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supervisory training or human relations (6/74).

Related Occupation Codes: 26C; 26W.

AR-1717-0018

Combat Surveillance and Target
Acquisition (SA-CMF) NCO Basic

Course Number: 2-SA-C40B.

Location: Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: 10–12 weeks (362–424 hours).

Exhibit Dates: 12/72–Present.

Objectives: To train enlisted personnel as non-integrated radar maintenance noncommissioned officers.

Instruction: Lectures and practical exercises on non-integrated radar maintenance, including individual career development, individual and mass communications, company administration, company operations, army organization and operations, advanced map and navigation principles, communications, STANO, ground surveillance radar operation procedures, new equipment training, trends and developments, airborne photographic surveillance, specific surveillance systems, and specific aircraft and systems.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 17K; 17L; 17M.

AR-1717-0019

Non-Integrated Radar Maintenance
(RM-CMF) Noncommissioned
Officer (NCO) Basic

Course Number: 1-RM-C40B.

Location: Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ.

Length: 12 weeks (426 hours).

Exhibit Dates: 12/73–12/78.

Objectives: To train enlisted personnel as non-integrated radar maintenance noncommissioned officers.

Instruction: Lectures and practical exercises on non-integrated radar maintenance, including individual career development, individual and mass communications, company administration, company operations, army organization and operations, advanced map and navigation principles, communications, STANO, ground surveillance radar operations procedures, new equipment training, trends and developments, airborne photographic surveillance, specific surveillance systems, and specific aircraft and systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in maintenance management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (6/74).

Related Occupation Codes: 26C; 26K; 26M; 26N.

AR-1717-0020

Non-Integrated Radar Maintenance (RM-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 1-RM-C42.

Location: Signal School, Ft. Monmouth, NJ.

Length: 10–11 weeks (369–383 hours).

Exhibit Dates: 7/73–Present.

Objectives: To qualify enlisted personnel as advanced noncommissioned officers in non-integrated radar maintenance.

Instruction: Lectures and practical exercises in non-integrated radar maintenance, including general military subjects, command and staff operations, combined arms, special weapons and CBR operations, applied communications, fixed-station communications, radar equipment communications security, satellite communications, logistics, combat service support operations, administration and management, and communicative arts or human relations and management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in administrative management (6/74).

Related Occupation Codes: 26H; 26K; 26M; 26P; 26W.

AR-1717-0021

Aircraft Maintenance Officer (Phases I, II and III)

Course Number: 4D-4823; 4D-671B; 4D-671C.

Location: Transportation School, Ft. Eustis, VA.

Length: 18 weeks (672 hours).

Exhibit Dates: 6/68–9/69.

Objectives: To train commissioned and warrant officers as aircraft maintenance officers.

Instruction: Lectures and practical exercises on organizational, direct, and general support aircraft maintenance and maintenance management procedures, including logistics, management training, aviation maintenance support, maintenance management, fixed-wing and rotary-wing aircraft, aircraft component repair, aircraft welding, specific technical subjects, basic aerodynamics, fuels, lubricants, dispensing equipment, safety procedures, and corrosion control.

Credit Recommendation: In the vocational certificate category, 2 semester hours in industrial management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in industrial management (6/74); in the upper-division baccalaureate category, 2 semester hours in industrial management (6/74).

Related Occupation Codes: 160A; 103A.

AR-1717-0022

Aircraft Maintenance Officer

Course Number: *All Versions:* 55-O-16. *Version 1:* 55-B-4823; 55-B-671B; 55-B-671C.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 14–16 weeks (496–549 hours). *Version 2:* 12 weeks (433 hours).

Exhibit Dates: *Version 1:* 4/55–5/68. *Version 2:* 3/54–3/55.

Objectives: To train commissioned and warrant officers in aircraft maintenance and maintenance management procedures.

Instruction: *All Versions:* Lectures and practical exercises in aircraft maintenance and maintenance management procedures, including logistics, maintenance fundamentals, maintenance operations, fixed- and rotary-wing aircraft, and aircraft component repair. *Version 1:* Instruction includes personnel management, financial management and inventory accounting, programming and budget system, and management structure.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in industrial management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in industrial management (6/74); in the upper-division baccalaureate category, 2 semester hours in industrial management (6/74). *All Versions:* Credit is not recommended because of the limited technical nature of the course (6/74).

Related Occupation Codes: 160A; 103A.

AR-1717-0023

Aircraft Maintenance Officer and Repair Technician (Phase I)
(Aircraft Maintenance Officer (Phase I))

Course Number: 4D-4823; 4D-671B; 4D-671C; 4D-671D; 4D-671E.

Location: Transportation School, Ft. Eustis, VA.

Length: 13 weeks (451–472 hours).

Exhibit Dates: 8/70–9/74.

Objectives: To train commissioned and warrant officers as aircraft maintenance officers and repair technicians.

Instruction: Lectures and practical exercises in aircraft maintenance management procedures, including logistics, management training, aviation maintenance support, maintenance fundamentals, applied management, maintenance and shop operations, fixed-wing aircraft, multiengine helicopters, single-engine helicopters, aircraft armament and recovery, and field and mechanized stock-control procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in industrial management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in industrial management (6/74); in the upper-division baccalaureate category, 2 semester hours in industrial management (6/74).

Related Occupation Codes: 160A; 103A; 100Q; 100R; 100B.

AR-1717-0024

Aircraft Maintenance Officer (Phase IV)

Course Number: 4D-4823; 4D-671B; 4D-671C; 4D-671D; 4D-671E.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (94 hours).

Exhibit Dates: 6/68–9/74.

Objectives: To qualify commissioned or warrant officer aviators with experience in aircraft maintenance as maintenance test pilots.

Instruction: Lectures and practical exercises in detection and diagnosis of, and prescription of appropriate corrective action for, problems encountered in preflight, ground run, maintenance and functional flight tests of OV-1 aircraft, including OV-1 design and standards, functional flight test, AC and DC electrical systems, hydraulic systems, propeller and rigging, flight control system, utility and environmental systems, Martin-Baker J-5 ejection seat, instruments, turbine engine analysis, and fuel control.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

Related Occupation Codes: 160A; 103A.

AR-1717-0025

Aircraft Maintenance Officer (Phase V)

Course Number: 4D-4823; 4D-671B; 4D-671C.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (108 hours).

Exhibit Dates: 6/68–9/74.

Objectives: To train commissioned and warrant officer aviators experienced in aircraft maintenance to perform as maintenance test pilots.

Instruction: Lectures and practical exercises in detection and diagnosis of, and prescription of appropriate corrective action for, problems encountered during a preflight, ground run, maintenance and functional flight test of OH-6 and OH-58 helicopters, including functional test flight, test flight troubleshooting, functional test flight vibrations, anti-torque system, electrical instrument and warning system, maintenance readiness inspection, and airframe and engine fuel system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

Related Occupation Codes: 160A; 103A.

AR-1717-0026

Aircraft Maintenance Officer (Phase III)

Course Number: 4D-4823; 4D-671B; 4D-671C; 4D-671E.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (106 hours).

Exhibit Dates: 6/68–9/74.

Objectives: To train aircraft maintenance officers to perform as maintenance test pilots.

Instruction: Lectures and practical exercises in detection and diagnosis of, and prescription of appropriate corrective action for, problems encountered in preflight and functional flight tests of CH-47 helicopters, including general information and preflight review, airframe and fuel systems, flight control neutral rig checks and hydraulic systems, AC-DC electrical system, blade tracking, hover and forward flight checks, SAS and speed trim introduction and troubleshooting, and T-55 turbine engine systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

AR-1717-0027

AIRCRAFT MAINTENANCE OFFICER (PHASE II)

Course Number: 4D-4823; 4D-671B; 4D-671C.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (116 hours).

Exhibit Dates: 6/68–9/74.

Objectives: To train commissioned officers or warrant officers to detect and diagnose problems related to helicopter flight clearance.

Instruction: Lectures and practical exercises in the duties of aircraft maintenance officers. Course includes technical topics relating to the design and functions of helicopters.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/74).

AR-1717-0028

MAINTENANCE SUPERVISOR

(Intercept Equipment Maintenance Supervisor)

Course Number: 102-F8; 102-33D40; 32-R-286.6.

Location: Security Agency, Ft. Devens, MA.

Length: 17–27 weeks (605 hours).

Exhibit Dates: 1/64–Present.

Objectives: To train personnel to perform as maintenance supervisors.

Instruction: Lectures and practical exercises in the duties of USASA maintenance supervisors, including functions of NSA and organization, missions, and function of USASA; state-of-the-art electronics devices; intercept receiving systems; ECM/DF systems; intercept recording systems; intercept demultiplexing systems; automatic data processing systems; communciations equipment; maintenance concepts; principles of management; resources management; administration; and signal supply and training management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in principles of management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management (6/74); in the upper-division baccalaureate category, 3 semester hours in principles of management (6/74).

Related Occupation Codes: 33C; 33D; 33F; 33G.

AR-1717-0029

PERSHING GUIDANCE AND CONTROL REPAIRMAN I(A) NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 121-21L50-EC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 13 weeks (477 hours).

Exhibit Dates: 11/70–3/73.

Objectives: To train enlisted personnel as senior noncommissioned administrators of Pershing missile guidance and control repair units.

Instruction: Lectures and practical exercises in repair of Pershing missile guidance and control systems. Course includes military organization and functions, and Pershing missile ancillary test equipment.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics laboratory, 6 in business management (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory, 3 in business management (6/74).

Related Occupation Codes: 21L; 21M.

AR-1717-0030

LAND COMBAT SUPPORT SYSTEM (LCSS)—MISSILE MAINTENANCE NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 121-27Z50-EC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 20 weeks (710 hours).

Exhibit Dates: 2/71–3/73.

Objectives: To train senior enlisted personnel to organize, manage, and maintain specific missile systems.

Instruction: Lectures and practical exercises in the duties of a missile maintenance chief. Course includes Chaparral missile, Vulcan air defense, Redeye weapon, Tow missile, and Shillelagh missile systems, and general combat support systems.

Credit Recommendation: In the vocational certificate category, 6 semester hours in business management, 4 in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business management, 2 in electronics laboratory (6/74); in the upper-division baccalaureate category, 2 semester hours in business management, 1 in electronics laboratory (6/74).

Related Occupation Codes: 27B; 27D; 27E; 27F; 27G; 27H; 27Z; 16Z.

AR-1717-0031

SERGEANT MAINTENANCE CHIEF NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 121-21U50-EC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 19 weeks (689 hours).

Exhibit Dates: 11/70–3/73.

Objectives: To train noncommissioned officers in the maintenance and management of Sergeant missile systems.

Instruction: Lectures and practical exercises in the duties of Sergeant maintenance chiefs. Course includes management functions, data processing operations, human factors budget cycles, and a complete overview of the Sergeant missile systems, including block-diagram analysis, troubleshooting techniques and system operation.

Credit Recommendation: In the vocational certificate category, 6 semester hours in industrial management, or as an elective in management (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in industrial management, or as an elective in management (6/74); in the upper-division baccalaureate category, 2 semester hours in industrial management, or as an elective in management (6/74).

Related Occupation Codes: 21R; 21S; 21T; 21U; 46L.

AR-1717-0032

SURFACE-TO-AIR MISSILE SYSTEM MAINTENANCE (NIKE) WARRANT OFFICER ADVANCED

Course Number: 4-9-C32; 4-9-C32-B; 4F-251B-B.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 17 weeks (616 hours).

Exhibit Dates: 2/72–10/76.

Objectives: To train warrant officers in Nike and Hawk missile management and logistics.

Instruction: Lectures and practical exercises at the advanced level in the maintenance of surface-to-air missile systems, including the Hawk and Nike missile system. Course includes personnel management, data processing, operations research, systems and analysis, motivation techniques, budget cycles, statistics, human factors, missile systems, AC and DC distribution systems, communication systems, radar, and digital systems.

Credit Recommendation: In the vocational certificate category, 12 semester hours in industrial management or management elective (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in industrial management or management elective (6/74); in the upper-division baccalaureate category, 2 semester hours in industrial management or management elective (6/74).

AR-1717-0033

ARMOR MAINTENANCE OFFICER

(Armor Maintenance and Motor Transport)

(Armor Motor Officer)

Course Number: 17-B-0606; 17-B-631A; 17-B-0600; 17-O-5.

Location: Armor School, Ft. Knox, KY.

Length: 14–15 weeks (549–591 hours).

Exhibit Dates: 11/55–12/68.

Objectives: To train officers to supervise armor maintenance units.

Instruction: Lectures and practical exercises in armor unit maintenance, including engine and fuel systems construction, disassembly, and assembly; engine, electrical air, fuel, cooling, and lubricating systems diagnosis and repair; wheeled-vehicle power trains maintenance and administrative operations; recovery vehicle maintenance; medium guntank maintenance; and armored infantry vehicle maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in business or industrial management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in business or industrial management (7/74); in the upper-division baccalaureate category, 3 semester hours as an elective in business or industrial management (7/74).

AR-1717-0034

SURFACE-TO-SURFACE MISSILE SYSTEM MAINTENANCE (SERGEANT) WARRANT OFFICER ADVANCED

Course Number: 4-9-C32; 4-9-C32-C; 4F-241E-B.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 11 weeks (402 hours).

Exhibit Dates: 3/72–10/76.

Objectives: To train warrant officers in Pershing and Sergeant missile system management and logistics.

Instruction: Lectures and practical exercises in Pershing and Sergeant missile system management and logistics, including missile system functions and operations, ground handling equipment, system component test station, programmer test station, emergency and safety procedures, and missile maintenance.

Credit Recommendation: In the vocational certificate category, 6 semester hours in military management and business administration (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in military management and business administration (6/74).

AR-1717-0035

Associate SAM Officer Advanced

Course Number: 44-O-4B.

Location: Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 16 weeks (568 hours).

Exhibit Dates: 10/56–12/68.

Objectives: To train officers to be surface-to-air missile officers.

Instruction: Lectures and practical exercises in nuclear weapons and safety, Nike Ajax missile systems, command and staff procedures, communications, tactics, and leadership principles.

Credit Recommendation: In the vocational certificate category, 6 semester hours in business administration (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in business administration (6/74); in the upper-division baccalaureate category, 3 semester hours in business administration (12/68).

AR-1717-0036

Quartermaster Maintenance
Supervision

Course Number: *All Versions:* 10-B-F7. *Version 1:* 10-A-F7.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 3 weeks (105 hours). *Version 2:* 6 weeks (210 hours).

Exhibit Dates: *Version 1:* 8/61–12/68. *Version 2:* 7/60–7/61.

Objectives: To train commissioned and warrant officers in the principles, methods, and techniques of supervising quartermaster maintenance operations.

Instruction: *All Versions:* Lectures and practical exercises in the supervision of quartermaster maintenance operations. *Version 1:* Topics include administration and maintenance procedures, organization and operation of field maintenance shops, depot shop operations, and technical inspection of equipment. *Version 2:* Topics include supervision and management of personnel, Army command management system, repair parts supply, packaging, leadership, teaching principles and effective speaking, administrative and maintenance procedures, supervision of shop operations, and operation of TOE maintenance activities.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in shop management (7/74); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68). *Version 2:* In the vocational certificate category, 3 semester hours in shop management (7/74); in the upper-division baccalaureate category, 3 semester hours in shop management (12/68).

AR-1717-0037

Electronic Warfare (EW)
Cryptologic Interceptor—Morse
Basic Technical

Course Number: 231-05H30.

Location: Intelligence School, Ft. Devens, MA.

Length: 8–10 weeks (300–341 hours).

Exhibit Dates: 4/77–Present.

Objectives: To train electronic-warfare/cryptologic-interceptor (Morse) technicians to become supervisors of Morse Intercept operations.

Instruction: Instruction and practical exercises in map reading, maintenance management procedures, supervision of maintenance personnel, electronics warfare, intelligence and security operations, and military science.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77).

Related Occupation Codes: 05H.

AR-1717-0038

Artillery Vehicle Maintenance
Supervisor
(Artillery Vehicle Maintenance Supervision)

Course Number: 6-R-631.7; 6-R-631.6; 6-R-632.7; 6-E-10; 6-R-632.6.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 4–12 weeks (141–422 hours).

Exhibit Dates: 8/55–12/68.

Objectives: To train enlisted personnel to supervise turret maintenance, organizational maintenance, and recovery of artillery vehicles.

Instruction: Lectures and practical exercises in the supervision of turret maintenance, organizational maintenance, and recovery of artillery vehicles, including maintenance management, internal-combustion engines, starting and charging systems, hydraulic actuators and controls, transmissions and final drives, braking systems, fuel and other engine systems, welding, troubleshooting of specific engine equipment and systems, missile- and rocket-handling equipment, and engine electrical systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive technology and middle management (7/74); in the upper-division baccalaureate category, 2 semester hours in automotive technology and middle managememt (7/74).

AR-1717-0039

1. Armor Officer Basic Tank/Armor
Officer Basic Cavalry
2. Armor Officer Basic
(Armor Officer Orientation)
3. Armor Officer Basic

Course Number: *Version 1:* 2-17-C20-12A-M60A1. *Version 2:* 2-17-C20; 17-A-C20B; 17-A-C20. *Version 3:* 17-A-C1; 17-O-A.

Location: Armor School, Ft. Knox, KY.

Length: *Version 1:* 15–16 weeks (785–831 hours). *Version 2:* 8–13 weeks (327–552 hours). *Version 3:* 10–16 weeks (391–628 hours).

Exhibit Dates: *Version 1:* 4/78–Present. *Version 2:* 7/60–3/78. *Version 3:* 5/55–6/60.

Objectives: To train commissioned officers to perform as armor officers.

Instruction: *All Versions:* Lectures and practical exercises in the duties of an armor officer. Course includes automotive maintenance system, employment of armored vehicles, nuclear weapons, artillery and infantry operations, engineer operations, communication equipment and procedures, tactical and field communications, and weapon familiarization. *Version 1:* Current version also emphasizes leadership and command, supply management and nuclear, biological and chemical defense.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in military science or 1 semester hour in basic management/supervision (2/80). *Version 2:* In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (12/68). *Version 3:* In the vocational certificate category, 3 semester hours as an elective in management programs (7/74); in the upper-division baccalaureate category, credit in advanced military at institutions which normally offer such credit (12/68).

AR-1717-0040

1. Mechanical Maintenance (63-
CMF) Noncommissioned Officer
(NCO) Advanced
Mechanical Maintenance (63-CMF)
Noncommissioned Officer (NCO)
Advanced)
(Mechanical Maintenance (MM-CMF)
NCO Non Commissioned Officer
(NCO) Advanced)

Course Number: 6-63-C42; 6-MM-C42.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 8 weeks (224–300 hours). *Version 2:* 10–12 weeks (340–388 hours).

Exhibit Dates: *Version 1:* 5/76–Present. *Version 2:* 5/73–4/76.

Objectives: To train noncommissioned officers to supervise and manage mechanical maintenance activities.

Instruction: *All Versions:* Lectures and practical exercises in the supervision and management of mechanical maintenance activities. Course includes management practices, logistics management, maintenance and supply management, material maintenance operations, and general information on military leadership, relations, correspondence and communications. *Version 1:* Includes automotive and heavy equipment repair.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive or heavy equipment service management (1/78); in the upper-division baccalaureate category, 2 semester hours in organization and management, 1 in supervision of training, and 1 in human relations (1/78). *All Versions:* In the vocational certificate category, 2 semester hours in organization and management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in organization and management (7/74); in the upper-division baccalaureate category, 2 semester hours in organization and management (7/74).

Related Occupation Codes: 35G; 35J; 41C; 44E; 44Z; 45B; 45D; 45J; 45K; 45L; 45M; 45Z; 57C; 62B; 62C; 63B; 63C; 63F; 63G; 63H; 63J; 63K; 63Z.

AR-1717-0041

Maintenance Officer

Course Number: 4N-4803.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (301 hours).

Exhibit Dates: 10/65–12/68.

Objectives: To train commissioned officers and civilians to direct, supervise, and coordinate operations of composite maintenance activities.

Instruction: Lectures and practical exercises in the supervision and coordination of maintenance activities. Course includes principles of maintenance, management and operations, and selected military subjects.

Credit Recommendation: In the vocational certificate category, 3 semester hours in maintenance management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management (7/74); in the upper-division baccalaureate category, 3 semester hours in maintenance management (12/68).

AR-1717-0042

Ordnance Officer Candidate

Course Number: 4-9-F1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 23 weeks (962 hours).

Exhibit Dates: 3/67–Present.

Objectives: To train selected personnel to perform as ordnance officers.

Instruction: Lectures and practical exercises in the duties of an ordnance officer and the duties of a platoon leader in a functional maintenance unit. Course includes a study of military leadership, tactical operations, logistics, provisions and supplies, and repair and maintenance of weapons, ammunition, tracked vehicles, and other automotive equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in maintenance and supply management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance and supply management (7/74); in the upper-division baccalaureate category, 4 semester hours in maintenance and supply management, and credit in advanced military at institutions which normally offer such credit (12/68).

AR-1717-0043

Petroleum (PT-CMF)
Noncommissioned Officer (NCO)
Advanced

Course Number: 8-PT-C42.

Location: Quartermaster School, Ft. Lee, VA.

Length: 11 weeks (371 hours).

Exhibit Dates: 11/72–Present.

Objectives: To train noncommissioned officers in advanced management and petroleum storage and supply operations.

Instruction: Lectures and practical exercises in the duties of advanced noncommissioned officers in petroleum operations, including logistical combat support, leadership, maintenance management, communicative techniques, general petroleum subjects, quality surveillance and laboratory tests, petroleum supply operations, terminal operations, and pipeline operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in personnel management, industrial management, industrial psychology, and materials handling (7/74); in the upper-division baccalaureate category, 6 semester hours in personnel management, industrial management, industrial psychology, and materials handling (7/74).

Related Occupation Codes: 76W; 92C.

AR-1717-0044

1. Mechanical Maintenance Officer
2. Mechanical Maintenance Officer
(Field Maintenance Officer)

Course Number: 4N-4815.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 10–11 weeks (348–370 hours). *Version 2:* 8 weeks (294 hours).

Exhibit Dates: *Version 1:* 11/69–Present. *Version 2:* 7/65–10/69.

Objectives: To train commissioned officers to supervise the repair of mechanical devices.

Instruction: *All Versions:* Lectures and practical exercises in the supervision of repair of mechanical devices, including maintenance management, supply procedures, principles of mechanical maintenance, specialized equipment maintenance, heavy-equipment recovery operations, electrical and communications equipment, and armament materiel. *Version 1:* Includes construction, materials-handling, and support equipment. *Version 2:* Includes electronic equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 10 semester hours in mechanical and vehicle maintenance (7/74); in the lower-division baccalaureate/associate degree category, 7 semester hours in mechanical and vehicle maintenance (7/74). *Version 2:* In the vocational certificate category, 9 semester hours in mechanical and vehicle maintenance (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in mechanical and vehicle maintenance (7/74); in the upper-division baccalaureate category, 3 semester hours in maintenance management (12/68).

AR-1717-0045

Chemical Corps Orientation

Course Number: 3-O-18.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 6 weeks (198 hours).

Exhibit Dates: 3/57–12/68.

Objectives: To train officers and civilian personnel in the organization, operation, and management of the Chemical Corps.

Instruction: Lectures and practical exercises in the organization, operation, and management of the Chemical Corps, including organization, administration, intelligence, CBR operations, logistics, management, chemical and biological warfare, atomic and radiological warfare, and protection and materiel.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 2 semester hours in business organization and management (12/68).

AR-1717-0046

Fixed Plant Communications
Equipment Maintenance (CM-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 1-CM-C40.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12 weeks (414 hours).

Exhibit Dates: 7/73–Present.

Objectives: To train enlisted personnel to perform as noncommissioned officers in fixed-plant communications equipment maintenance.

Instruction: Lectures and practical exercises in fixed-plant communications equipment maintenance. Course includes leadership, general military subjects, such as military justice and map and photo reading; maintenance and supply elements; introduction to defense communications; and management of various communications systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in organization and management (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in organization and management (8/74); in the upper-division baccalaureate category, 1 semester hour in organization and management (8/74).

Related Occupation Codes: 26V; 26Y; 32A; 32D; 32E; 32F; 32G; 32H; 36H.

AR-1717-0047

Armament Maintenance Foreman
(Armament Maintenance Supervision)

Course Number: 9-R-425.6.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (304 hours).

Exhibit Dates: 2/56–12/68.

Objectives: To train enlisted personnel to organize armament maintenance facilities and supervise personnel.

Instruction: Lectures and practical exercises in leadership fundamentals, instructor training, small arms, field artillery, antiaircraft and turret artillery materiel, shop organization, supply procedures, and ordnance service management.

Credit Recommendation: In the vocational certificate category, 2 semester hours in shop management (7/74); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68).

AR-1717-0048

Ammunition Officer and Ammunition Technician
(Ammunition Officer)
(Ordnance Ammunition Officer)

Course Number: 4E-4514; 4E-411A; 9-B-4514.

Location: Missile and Munitions School, Redstone Arsenal, AL; Ordnance School, Aberdeen Proving Ground, MD.

Length: 7–8 weeks (246–297 hours).

Exhibit Dates: 6/57–7/75.

Objectives: To provide commissioned and warrant officers with a knowledge of the organization, management, and operation of ammunition supply activities.

Instruction: Instruction includes conventional ammunition material and destruction; storage and transportation of ammunition; ammunition service and destruction.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/75).

Related Occupation Codes: 411A.

AR-1717-0049

Electronic Warfare (EW)
Cryptologic Interceptor—Non-Morse Basic Technical

Course Number: 231-05K30.

Location: Intelligence School, Ft. Devens, MA.

Length: 10 weeks (289 hours).

Exhibit Dates: 4/77–Present.

Objectives: To train electronic warfare interceptor non-Morse technicians to become intercept operations supervisors.

Instruction: Instructions and practical exercises in map reading; maintenance management procedures; supervision of maintenance personnel; tube-based telecommunications procedures, including modulation and wave propagation; basic communication systems; multiplexing and test equipment; security operations; and military science.

Credit Recommendation: In the vocational certificate category, 3 semester hours in communications systems (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77).

Related Occupation Codes: 05K.

AR-1717-0050

Ballistic Missile Repair (21-CMF) Noncommissioned Officer (NCO) Advanced (USAMMCS)

Course Number: 1-21-C42B.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 10 weeks (334 hours).

Exhibit Dates: *Version 1:* 2/78–Present. *Version 2:* 5/75–1/78.

Objectives: To provide enlisted personnel with knowledge of duties and supervisory skills required of senior noncommissioned officers in the Missile Career Management Field.

Instruction: *All Versions:* Lectures and practical exercises in military subjects and missile maintenance management. *Version 1:* This version includes specific training for qualification in certified soldering. *Version 2:* This version includes effective writing, effective speaking and administrative exercises in management.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour toward certified soldering; in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills (6/79).

Related Occupation Codes: 21G; 21L; 21R; 21S; 21T; 21U; 46L; 46N.

AR-1717-0051

Aircraft Maintenance Officer and Repair Technician

Course Number: 4D-4823; 4D-671B; 4D-671C; 4D-671D; 4D-671E.

Location: Transportation School, Ft. Eustis, VA.

Length: 13–15 weeks (445–479 hours).

Exhibit Dates: 10/74–Present.

Objectives: To train commissioned and warrant officers to manage aircraft maintenance resources, to inspect aircraft systems, and to perform operational checks on light aircraft.

Instruction: Instruction in maintenance concepts, management of aircraft maintenance resources, inspection and diagnostic procedures, subsystems and support equipment, and operational checks to determine airworthiness of light aircraft.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (6/75).

Related Occupation Codes: 160A; 103A.

AR-1717-0052

Armament Repair Technician

Course Number: 4E-421A.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 17 weeks (536–587 hours).

Exhibit Dates: *Version 1:* 1/78–Present. *Version 2:* 3/72–12/77.

Objectives: To train personnel to perform the duties of an armament repair technician or repair shop foreman.

Instruction: *Version 1:* Lectures and practical exercises in the areas of management procedures, basic electricity, inspection and repair of artillery, small arms and fire control materiel. *Version 2:* Includes maintenance and supply management; personnel management; care and use of hand, power, and machine tools.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and 3 in shop management (1/78); in the upper-division baccalaureate category, 2 semester hours in management (1/78). *Version 2:* In the vocational certificate category, 1 semester hour in personnel management, 4 in mechanical/industrial technology (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management, 3 in mechanical/industrial technology (5/74).

Related Occupation Codes: 421A.

AR-1717-0053

Information and Audio Visual (IV-CMF) Noncommissioned Officer (NCO) Basic (USASCS)

Course Number: 4-IV-C40.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12 weeks (414 hours).

Exhibit Dates: 8/72–Present.

Objectives: To train personnel to perform in managerial or supervisory roles in television and radio broadcasting and photographic repair and operations.

Instruction: Conferences and practical exercises to include leadership training; management principles and practices; and familiarity instruction in the areas of radio and television broadcasting, photographic repair, and photographic equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in audio-visual maintenance and management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in audio-visual maintenance and management (7/74); in the upper-division baccalaureate category, 2 semester hours in audio-visual maintenance and management (7/74).

Related Occupation Codes: 26T; 41E; 41F; 41G; 84B; 84C; 84D; 84E; 84F; 84G.

AR-1717-0054

Signal Security Specialist Basic Technical

Course Number: 231-05G30.

Location: Intelligence School, Ft. Devens, MA.

Length: 11 weeks (335 hours).

Exhibit Dates: 4/77–Present.

Objectives: To prepare personnel who have been trained as signal security specialists to become supervisors of signal security operations.

Instruction: Instructions and practical exercises in map reading, maintenance management procedures, supervision of maintenance personnel, communications/telecommunications operations, communication security, and military science.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77).

Related Occupation Codes: 05G.

AR-1717-0055

Electronic Warfare (EW) Cryptologic Interceptor—Voice Basic Technical

Course Number: 232-98G30; 232-98G3L; 231-98G3L.

Location: Intelligence School, Ft. Devens, MA.

Length: 6–10 weeks (176–293 hours).

Exhibit Dates: 4/77–Present.

Objectives: To prepare electronic warfare cryptologic voice interceptors to supervise voice intercept operations.

Instruction: Instruction and practical exercises in map reading, maintenance management procedures, and supervision of maintenance personnel. Language options include German, Russian, and others.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77).

Related Occupation Codes: 98G.

AR-1717-0056

Electronic Warfare (EW) Cryptologic Traffic Analyst Basic Technical

Course Number: 232-98C30.

Location: Intelligence School, Ft. Devens, MA.

Length: 11–12 weeks (335 hours).

Exhibit Dates: 4/77–Present.

Objectives: To prepare electronic warfare/cryptologic traffic analysts to supervise analytic operations.

Instruction: Instruction and practical exercises in map reading, maintenance management procedures, supervision of maintenance personnel, and traffic analysis techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77).

AR-1717-0057

Mechanical Maintenance (MM-CMF) Warrant Officer Advanced (252A)

Course Number: 4-9-C32; 4-9-C32F.

Location: Ordnance School, Aberdeen Proving Ground.

Length: 14 weeks (427 hours).

Exhibit Dates: 11/76–Present.

Objectives: To train warrant officers in the operation and management of a calibration company or facility.

Instruction: Phase I: Lectures and practical exercises in leadership and managerial studies, management systems concerned with supply and maintenance, and common technical subjects. Phase II: Lectures and practical exercises to provide technical and supervisory skills in control office operation, laboratory and supply operations pertinent to a calibration facility or company. Course provides a working knowledge to perform the duties of a radiological protection or control officer.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in management, 3 in personnel administration, 1 in supervision of training, 2 in human relations and 3 in radiological safety (1/78).

Related Occupation Codes: 252A.

AR-1717-0058

Air Defense (CMF-27) Noncommissioned Officer (NCO) Advanced

Course Number: 1-27-C42B.

Location: Air Defense School, Ft. Bliss, TX.

Length: 10 weeks (366 hours).

Exhibit Dates: 7/77–Present.

Objectives: To prepare students to perform leadership duties in air defense areas.

Instruction: Subjects include tactics, communicative arts, leadership, management, air defense, artillery maintenance and operations and tactics, and systems orientation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills (11/77).

AR-1717-0059

Mechanical Maintenance (MM-CMF)
Warrant Officer Advanced
(441A)

Course Number: 4-9-C32B.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 15 weeks (452 hours).

Exhibit Dates: 11/76–Present.

Objectives: To train warrant officers in operation and maintenance of a metal working shop.

Instruction: Phase I includes lectures and practical exercises in leadership and managerial studies; management system concerned with supply and maintenance; and common technical subjects; Phase II provides lectures and in metal body repair; knowledge of machine shop operation and recovery equipment techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in shop practices, 3 in shop management (1/78); up 6 semester hours in management, 3 in personnel administration, 1 in supervision of training, 2 in human relations (1/78).

AR-1717-0060

Mechanical Maintenance (MM-CMF)
Warrant Officer Advanced
(632A)

Course Number: 4-9-C32E.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 17 weeks (516 hours).

Exhibit Dates: 11/76–Present.

Objectives: To train warrant officers in operation and management procedures related to wheel and tracked automotive equipment.

Instruction: Phase I provides lectures and practical exercises in leadership and managerial studies; management systems concerned with supply and maintenance, and common technical subjects. Phase II covers lectures and practical exercises in troubleshooting, overhaul and repair of wheeled and tracked automotive equipment; recovery equipment and techniques, and armament and fire control materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in automotive repair, 3 in automotive service management (1/78); in the upper-division baccalaureate category, 6 semester hours in management, 3 in personnel administration, 1 in supervision of training, 2 in human relations (1/78).

AR-1717-0061

Mechanical Maintenance (MM-CMF)
Warrant Officer Advanced
(631A)

Course Number: 4-9-C32D.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 15 weeks (462 hours).

Exhibit Dates: 11/76–Present.

Objectives: To train warrant officers in operation and management procedures related to wheel and tracked automotive equipment.

Instruction: Phase I involves lectures and practical exercises in leadership and managerial studies; management systems concerned with supply and maintenance, and common technical subjects. Phase II includes lectures and practical exercises in troubleshooting, overhaul and repair of wheeled and tracked automotive equipment; recovery equipment and techniques, and armament and fire control materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in automotive service management (1/78); up 6 semester hours in management, 3 in personnel administration, 1 in supervision of training, 2 in human relations (1/78).

AR-1717-0062

Mechanical Maintenance (MM-CMF)
Warrant Officer Advanced
(421A)

Course Number: 4-9-C32A.

Location: Ordnance and Chemical School, Aberdeen Proving Ground.

Length: 14 weeks (432 hours).

Exhibit Dates: 11/76–Present.

Objectives: To train warrant officers in the operation and management of armament maintenance for weapons systems.

Instruction: Phase I includes lectures and practical exercises in leadership and managerial studies; management systems concerned with supply and maintenance, and common technical subjects. Phase II consists of lectures and practical exercises to provide a working knowledge of maintenance problems, probable causes, and procedures necessary to repair armament weapon systems.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in management, 3 in personnel administration, 1 in supervision of training, 2 in human relations (1/78).

AR-1717-0063

Ordnance Officer Advanced
Armament

Course Number: 4-9-C22C.

Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 26 weeks (812–844 hours).

Exhibit Dates: 2/76–Present.

Objectives: To train commissioned officers in advanced armament operations.

Instruction: Lectures and practical experiences in advanced armament operations including organization for logistics; administration and operations; tactics and staff procedures; management functions and techniques, logistics management and armament track including electrical materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in automotive or heavy equipment repair (1/78); in the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in human relations (1/78).

AR-1719-0002

Lithographic Platemaking

Course Number: 740-83E20; 740-834.1; 5-E-51.

Location: Engineer School, Ft. Belvoir, VA.

Length: 7–8 weeks (254–290 hours).

Exhibit Dates: 2/56–Present.

Objectives: To train enlisted personnel to prepare offset plates to be used in lithographic printing processes.

Instruction: Lectures and practical exercises in the preparation and processing of materials for offset lithographic plate production, including layout and stripping procedures, various plate types, lithographic platemaking procedures, mathematics review, and advanced map and aerial photograph reading.

Credit Recommendation: In the vocational certificate category, 3 semester hours in graphics or printing (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in graphics or printing (5/74).

Related Occupation Codes: 83E; 83Z.

AR-1719-0003

Offset Press Operation

Course Number: 740-83F20; 740-835.1; 5-E-23.

Location: Engineer School, Ft. Belvoir, VA.

Length: 8 weeks (282–294 hours).

Exhibit Dates: 2/56–10/73.

Objectives: To train enlisted personnel to operate offset presses in the reproduction of maps, charts, and other printed line work.

Instruction: Lectures and practical exercises in offset press operations, including printing-bindery and press fundamentals, photolithography, the use of a power paper cutter, maintenance of an offset press, controls, feeder and delivery assemblies, cylinder assembly, dampening assembly, inking assembly, identifying printing problems, printing a three-color and a five-color map, and bindery equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in graphic arts (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in graphic arts (5/74).

Related Occupation Codes: 83F.

AR-1720-0002

1. Prime Power Production
   Specialist (Health Physics and
   Plant Chemistry Specialty)
2. Nuclear Power Plant Operators
   (Health Physics and Plant
   Chemistry Specialty)
   (Nuclear Power Plant Operators
   (Process Control Specialty))

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: *Version 1:* 43 weeks (1,481–1,723 hours); 43 weeks (1489 hours).

Exhibit Dates: *Version 1:* 10/77–Present. *Version 2:* 1/58–9/77.

Objectives: To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in all health/biological/chemical/radiological monitoring systems of nuclear/conventional power plants.

Instruction: *Version 1:* Students complete academic phase training which covers algebra, trigonometry and general mathematics, general physics, chemistry, A/C circuits analysis, D/C circuits analysis and mechanical engineering (thermodynamics) prior to specialty training. Specialty concentration provides enlisted personnel with a working knowledge of water chemistry and health physics. Upon completion of program student will be able to perform tests in health monitoring, chemical analysis and water treatment and analysis. Lectures and practical experiences include fundamentals of electrical and mechanical systems. Operator phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience. *Version 2:* Lectures and practical exercises to cover math, physics, chemistry, radiology, health physics, and the electrical and mechanical systems of a nuclear power plant.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics to include algebra and trigonometry, 3 in general physics, 3 in A/C circuits analysis, 3 in D/C circuits analysis, 6 in mechanical engineering to include 3 specifically in thermodynamics, 0-6 in cooperative work experience, 8 in general chemistry, 3 in water analysis and treatment (11/78); in the upper-division baccalaureate category, 6 semester hours in health physics (11/78). *Version 2:* In the vocational certificate category, 12 semester hours in general mathematics, 6 in nuclear technology, and 12 in health physics or chemistry (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in general mathematics, 3 in nuclear technology, and 6 in health physics or chemistry (6/74); in the upper-division baccalaureate category, 3 semester hours in chemistry/radiology or electrical laboratory for engineering majors, or 5 semester hours as a technical elective for non-engineering majors (6/74).

Related Occupation Codes: *Version 1:* 52E. *Version 2:* 52H; 52M.

AR-1720-0003

1. Prime Power Production Specialist (Electrical Specialty)
2. Nuclear Power Plant Operators (Electrical Specialty)

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: *Version 1:* 52 weeks (1826 hours); 52 weeks (1826 hours). *Version 2:* 40-56 weeks (1,355-1,943 hours).

Exhibit Dates: *Version 1:* 10/77-Present; 10/77-Present.

Objectives: To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in the maintenance of all electrical systems of nuclear/conventional power plants.

Instruction: *Version 1:* Students complete academic phase which covers algebra, trigonometry, general mathematics, general physics, chemistry, A/C circuits analysis, D/C circuits analysis, and mechanical engineering to include thermodynamics. Specialty phase includes analysis of power plant electrical systems including motors and generators, transformers, instrumentation, and protection apparatus. Includes control circuits, regulations and preventive maintenance procedures. Operator phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience. *Version 2:* Lectures and practical exercises to cover math; physics; nuclear physics; analysis of power plant mechanical and electrical systems; the operation of a nuclear power plant; motor generation theory; transistor circuit theory; and electrical wiring.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics to include algebra and trigonometry, 3 in general physics, 3 in A/C circuits analysis, 3 in D/C circuits analysis, 6 in lecture and 2 in laboratory in AC/DC electrical machines and power, 6 in mechanical engineering including 3 in thermodynamics, 2 in chemistry, 0-6 in cooperative work experience (11/78). *Version 2:* In the vocational certificate category, 10 semester hours in general science and mathematics, 10 in nuclear technology, and 6 in electrical or instrumentation laboratory (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in general science and mathematics, 5 in nuclear technology, and 3 in electrical or instrumentation laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours in nuclear, electrical, or electronic instrumentation laboratory for engineering majors, or 5 semester hours as a technical elective for non-engineering majors (6/74).

Related Occupation Codes: 52E; 52J; 52M.

AR-1720-0004

1. Prime Power Production Specialist (Mechanical Specilty)
2. Nuclear Power Plant Operators (Mechanical Specialty)

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: *Version 1:* 51 weeks (1751 hours). *Version 2:* 40-52 weeks (1,465-1,741 hours).

Exhibit Dates: *Version 1:* 10/77-Present. *Version 2:* 1/58-9/77.

Objectives: To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in all mechanical systems of nuclear/conventional power plants.

Instruction: *Version 1:* Students complete academic phase which covers algebra, trigonometry, and general mathematics, general physics, chemistry, A/C circuits analysis, D/C circuits analysis, and mechanical engineering. Course includes lectures and practical exercises to cover electrical and mechanical components of power plants, and the operation and maintenance of its auxiliary standby, and related equipment. Operation phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience. *Version 2:* Lectures and practical exercises to cover math; physics; electrical systems of a nuclear power plant; and the operation and maintenance of nuclear power plant mechanical systems.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in welding and machine shop techniques, 1 in heat exchange and compression, 1 in circuit and wiring methods, 2 in internal engines and heating systems (11/78); in the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics to include algebra and trigonometry, 3 in general physics, 2 in chemistry, 3 in A/C circuits analysis, 3 in D/C circuits analysis, 6 in mechanical engineering to include 3 in thermodynamics, 0-6 in cooperative work experience (11/78). *Version 2:* In the vocational certificate category, 10 semester hours in general mathematics and science, 10 in nuclear technology, and 6 in mechanical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in general mathematics and science, 5 in nuclear technology, and 3 in mechanical laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours in mechanical or instrumentation laboratory for engineering majors, or 5 semester hours as a technical elective for non-engineering majors (6/74).

Related Occupation Codes: 52E; 52K; 52M.

AR-1720-0005

1. Prime Power Production Specialist (Instrumentation Specialty)
2. Nuclear Power Plant Operators (Instrumentation Specialty)

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: *Version 1:* 52 weeks (1860 hours). *Version 2:* 40-64 weeks (1,480-2,207 hours).

Exhibit Dates: *Version 1:* 10/77-Present. *Version 2:* 1/58-9/77.

Objectives: To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in all electrical and mechanical systems of nuclear/conventional power plants.

Instruction: *Version 1:* Academic phase covers algebra, trigonometry and general mathematics, general physics, chemistry, A/C circuit analysis, D/C circuit analysis and mechanical engineering including thermodynamics. Sensors and measurement technology, electronics for instrumentation, signal processing, elements of automatic control including controllers and their tuning. Operator phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience. *Version 2:* Lectures and practical exercises to cover math, physics, operation of nuclear power plants, electronics, and electrical and mechanical instrumentation.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics to include algebra and trigonometry, 3 in general physics, 2 in chemistry, 3 in A/C circuit analysis, 3 in D/C circuit analysis, 6 in mechanical engineering to include 3 in thermodynamics, 0-6 in cooperative work experience (11/78); in the upper-division baccalaureate category, 3 semester hours in instrumentation for electrical engineering majors or 6 in electronics/instrumentation for non-engineering majors (11/78). *Version 2:* In the vocational certificate category, 12 semester hours in general mathematics and science, 18 in nuclear technology, and 6 in electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in general mathematics and science, 9 in nuclear technology, and 3 in electronics (6/74); in the upper-division baccalaureate category, 6 semester hours in electricity or electronic circuits theory and maintenance for non-engineering majors, or 3 semester hours in electronics and 1 in electronics laboratory for non-electrical engineering majors, or 1 semester hour in electrical laboratory for electrical engineering majors (6/74).

Related Occupation Codes: 52E; 52L; 52M.

AR-1721-0001

Fire Control Instrument Repair (Basic)

Course Number: 9-R-403.1.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (280 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To train enlisted personnel to assist in the repair of optical and nonoptical precision instruments and related equipment.

Instruction: Lectures and practical exercises in hand tools use and maintenance; optics cleaning; precision and non-precision-measuring instruments repair; basic electricity; Ohm's law; quadrants, mounts, and instrument accessories operation and repair; optics, refraction, and reflection; and prisms, lenses, and optical instruments inspection, adjustment, and repair.

Credit Recommendation: Insufficient data for evaluation (3/74).

AR-1721-0002

Fire Control Instrument Repair
(Optical Instrument Repairman (USMC))

Course Number: *Version 1:* 670-41C10. *Version 2:* 670-41C20. *Version 3:* 670-41C20. *Version 4:* 670-403;1 670-403.2. *Version 5:* 9-R-403.2.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 14–20 weeks (390–634 hours). *Version 2:* 29–31 weeks (947–995 hours). *Version 3:* 19 weeks (645 hours). *Version 4:* 12 weeks (443 hours). *Version 5:* 8 weeks (280 hours).

Exhibit Dates: *Version 1:* 11/76–Present. *Version 2:* 9/73–10/76. *Version 3:* 6/72–8/73. *Version 4:* 8/64–5/72. *Version 5:* 2/57–7/64.

Objectives: To train enlisted personnel to inspect, adjust, and repair optical, nonoptical, and electrical precision instruments and related equipment.

Instruction: *All Versions:* Lectures and practical exercises in optics fundamentals and repair techniques; care and use of common hand tools and measuring instruments; inspection and troubleshooting of binoculars, periscopes, telescopes, aiming circles, and tank fire control systems; and diagnosis and repair of electromechanical computers and gun aiming systems. Note: Course is 14 weeks long for Marine enlisted personnel. Army and Marine personnel who have completed Module 201 of Common Basic Electronics Training (COBET) at Ft. Jackson, SC will complete only Phase II of course. See AR-1715-0389 for credit recommendation for COBET. Students who have not attended COBET will complete Phases I and II of this course. *Version 1:* Training for Army includes telescope mount, periscope (passive) and mount and panel assemblies. For students completing Phases I and II the course includes basic concepts of electricity including solid state testing, inspection, and troubleshooting of electronic circuits; inspection and repair of binoculars, periscopes, telescopes, aiming circles, mounts and artillery, and tank fire control mechanisms. *Version 2:* Instruction includes principles and components of optical, electro-mechanical, electronic, and laser range finders, aimers, and computer systems. *Version 3:* Instruction includes basic measurement and repair tasks for electronic equipment. *Version 5:* Instruction includes mechanical instrument repair.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 5 semester hours in optical instrument repair and 5 in basic electricity and electronics for Army personnel completing Phases I and II or 4 semester hours in optical instrument repair and 3 in basic electricity and electronics for Marine Corps completing Phases I and II. For Army personnel completing COBET and Phase II of this course, 5 semester hours in optical instrument repair or for Marine Corps personnel completing COBET and Phase II of this course, 4 semester hours in optical instrument repair (see note above for explanation of COBET) (1/78). *Version 2:* In the vocational certificate category, 5 semester hours in optical equipment principles and maintenance, 4 in basic electricity, 4 in basic electronics, 4 in electro-mechanical devices, 2 in basic laser principles, and 1 in basic infrared principles (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in optical instrumentation, 3 in introduction to electricity and electronics, 2 in electro-mechanical devices, and 2 in laser and infrared principles (6/75). *Version 3:* In the vocational certificate category, 4 semester hours in electronics, 2 in electrical laboratory, 4 in optical instrument repair, 3 in electromechanical technology (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electromechanical technology (3/74). *Version 4:* In the vocational certificate category, 4 semester hours in optical instrument repair, 3 in electromechanical technology (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electromechanical technology (3/74). *Version 5:* In the vocational certificate category, 3 semester hours in optical instrument repair, 2 in electromechanical technology (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electromechanical technology (3/74).

Related Occupation Codes: 41C; 09B.

AR-1721-0003

Electrical Instrument Repair

Course Number: 198-295.1; 11-R-295.1.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 12 weeks (432–440 hours).

Exhibit Dates: 3/57–12/68.

Objectives: To train enlisted personnel to inspect, test, and repair electrical indicating instruments, combination meters, multipurpose meters, and electromechanical meteorological instruments.

Instruction: Lectures and practical exercises in basic electrical principles; inspection, testing, adjustment, and repair of DC and AC voltmeters and ammeters, common multimeters, anemometers, barometers, barographs, thermographs, wind equipment, and theodolites.

Credit Recommendation: In the vocational certificate category, 6 semester hours in instrument repair, and additional credit in instrument repair on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in instrument repair, and additional credit in instrument repair on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in instrument repair on the basis of institutional evaluation (3/74).

AR-1721-0004

Aircraft Instrument Repair

Course Number: *All Versions:* 602-68F30. *Version 2:* 602-688;1 55-R-688;1 55-E-56.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 8 weeks (241 hours). *Version 2:* 10–18 weeks (343–640 hours).

Exhibit Dates: *Version 1:* 4/74–Present. *Version 2:* 4/57–3/74.

Objectives: To train enlisted personnel to repair and maintain aircraft instruments and allied equipment.

Instruction: *All Versions:* Lectures and practical exercises in the repair and maintenance of aircraft instruments and allied equipment, including electrical fundamentals, aircraft instruments (gauges, indicators, gyroscopic principles, compasses, and test equipment), and mathematics and physical principles related to aircraft systems. *Version 1:* Topics include troubleshooting instrument systems. *Version 2:* Topics include flight theory and counterinsurgency operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft electrical repair or electrical laboratory (6/75). *Version 2:* In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

Related Occupation Codes: 68F.

AR-1721-0005

Topographic Instrument Repair

Course Number: 670-41B20.

Location: Engineer School, Ft. Belvoir, VA.

Length: 12 weeks (452 hours).

Exhibit Dates: 9/66–Present.

Objectives: To train enlisted personnel to maintain and repair engineer surveying and mapping instruments and allied equipment.

Instruction: Lectures and practical exercises in surveying and mapping instruments maintenance and repair, including surveying rods, Abney hand level, Dumpy level, transit, telescopic alidade, Wild T-16 and Wild T-2 theodolites, Brunson 900 theodolite, multiplex, and survey tapes, and tools and equipment operation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in topographic instrument repair, 1 in surveying instrument familiarization (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in surveying instrument familiarization (5/74).

Related Occupation Codes: 41B.

AR-1721-0006

Camera Equipment Repair

Course Number: 198-41E20; 11-R-401.1; 11-E-2.

Location: Signal School, Ft. Monmouth, NJ.

Length: 12–15 weeks (432–554 hours).

Exhibit Dates: 2/56–Present.

Objectives: To train enlisted personnel to maintain and repair still and motion-picture cameras and related equipment.

Instruction: Lectures and practical exercises in still and motion-picture camera maintenance and repair, including electrical fundamentals, electronic flash unit, photographic equipment repair principles, motion-picture cameras, press cameras, between-the-lens cameras, focal-plane cameras, and supply and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electromechanical or camera repair (5/74);

in the lower-division baccalaureate/associate degree category, 4 semester hours in electromechanical repair (6/74).

Related Occupation Codes: 41E; 41H.

AR-1721-0007

AIRCRAFT INSTRUMENT AND ELECTRICAL SYSTEMS REPAIR

Course Number: Not available.

Location: Transportation School, Ft. Eustis, VA.

Length: 18 weeks (714 hours).

Exhibit Dates: 2/54–12/68.

Objectives: To train enlisted personnel as aircraft instrument and electrical systems repairmen.

Instruction: Lectures and practical exercises in repair, overhaul and rebuilding of aircraft instruments, electrical systems and their components, including common maintenance subjects, elementary physics and electricity, aircraft DC electrical power and actuator systems, aircraft AC electrical power and ignition systems, miscellaneous systems and troubleshooting, instrument repair fundamentals, gyroscopic instrument and magnetic compass, and mechanical systems.

Credit Recommendation: In the vocational certificate category, 12 semester hours in instrument maintenance (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in instrument maintenance (6/74).

AR-1721-0008

1. METEOROLOGICAL EQUIPMENT REPAIRER
2. METEOROLOGICAL EQUIPMENT MECHANIC AND REPAIRMAN

Course Number: *Version 1:* 420-ASIH1. *Version 2:* 198-35D20; 198-35D30.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* Self-paced 9–14 weeks (270–420 hours). *Version 2:* 20 weeks (662 hours).

Exhibit Dates: *Version 1:* 8/79–Present. *Version 2:* 2/74–7/79.

Objectives: To train enlisted personnel to perform maintenance and repair of electrical and mechanical meteorological equipment.

Instruction: *All Versions:* Lectures and practical exercises in electrical and electronic fundamentals, radio equipment, and common ground meteorological equipment (wind measuring equipment, Azimuth and Elevation equipment, and related equipment). *Version 1:* Course follows a self-paced format with individualized instruction and modulated learning packets, including extensive laboratories for diagnosis and repair of total equipment package.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic electronics (1/80); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics and 1 in communications laboratory (1/80). *Version 2:* In the vocational certificate category, 3 semester hours in basic electronics, 1 in communications laboratory (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in communications laboratory (6/75).

Related Occupation Codes: *Version 1:* 93F. *Version 2:* 35D; 35F.

AR-1722-0001

MARINE DECK OFFICER ADVANCED

Course Number: 8C-561C.

Location: Transportation School, Ft. Eustis, VA.

Length: 21 weeks (780 hours).

Exhibit Dates: 1/72–8/76.

Objectives: To train deck officers to be vessel commanders.

Instruction: Lectures and practical exercises in nautical rules and regulations; cargo stowage planning; advanced marlinspike seamanship; hazardous-cargo handling; ship's administration; ship's construction and repair; vessel stability; fire prevention and control; piloting and open water navigation, including charts, plotting, aids to navigation, dead reckoning, radar piloting, loran, meteorology, celestial navigation, midlatitude sailing, Mercator sailing, and great-circle sailing.

Credit Recommendation: In the vocational certificate category, 3 semester hours in trigonometry or navigation, 12 in marine vessel operation (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in trigonometry or navigation, 6 in marine vessel operation (5/74); in the upper-division baccalaureate category, 3 semester hours in trigonometry or navigation (12/68).

AR-1722-0002

CREWMAN

Course Number: *Version 1:* 062-61B20. *Version 2:* 813-61B20.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 6 weeks (200–224 hours). *Version 2:* 4 weeks (140 hours).

Exhibit Dates: *Version 1:* 9/71–Present. *Version 2:* 11/66–8/71.

Objectives: To provide enlisted personnel with a working knowledge of the duties and responsibilities of a crewman on U.S. Army watercraft.

Instruction: Lectures and practical exercises in ships radio communication and code flags; rigging; piloting, navigation, and charts; and watercraft operations to include tugs and towing equipment, single and multiple screw craft, retrieving and towing disabled vessels, and cargo loading.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in seamanship (7/74). *Version 2:* In the vocational certificate category, 3 semester hours in seamanship (7/74).

Related Occupation Codes: 61A; 61B.

AR-1722-0003

HARBOR CRAFT COMPANY OFFICER

Course Number: 8C-F7.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (111–119 hours).

Exhibit Dates: 10/68–Present.

Objectives: To provide officers with a general knowledge of the planning, directing, maintenance, administration, and supervision necessary in a U.S. Army harbor craft unit.

Instruction: Lectures and practical exercises in seamanship and boat handling skills; piloting; and engineering, including operation, maintenance, and support of Army floating equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in ship piloting and engineering (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in ship piloting and engineering (7/74).

AR-1723-0001

MARINE HULL REPAIR

Course Number: *Version 1:* 704-44K20. *Version 2:* 55-R-563;2 55-E-6.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 13–17 weeks (450–607 hours). *Version 2:* 9 weeks (315 hours).

Exhibit Dates: *Version 1:* 5/66–Present. *Version 2:* 10/55–4/66.

Objectives: To train enlisted personnel to repair metal, fiberglass, and wood hulls and related structures.

Instruction: *All Versions:* Lectures and practical exercises in the repair of metal, fiberglass, and wood hulls and related structures, including marine welding and pipefitting, sheet metal repair, and basic shipfitting. *Version 1:* Includes emergency repairs, aluminum hull repair, and plastic hull repair. *Version 2:* Includes blacksmithing.

Credit Recommendation: *Version 1:* In the vocational certificate category, 8 semester hours in welding or metalworking (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in welding or metalworking (6/74). *Version 2:* In the vocational certificate category, 8 semester hours in welding or metalworking, and 8 in cabinetmaking (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in welding or metalworking, and 4 in cabinetmaking (6/74).

Related Occupation Codes: 44K.

AR-1723-0002

MARINE HULL REPAIR SUPERVISION

Course Number: 55-R-563.6; 55-E-28.

Location: Transportation School, Ft. Eustis, VA.

Length: 11 weeks (388–391 hours).

Exhibit Dates: 9/55–1/65.

Objectives: To train enlisted personnel to supervise repair of wood and steel hulls, superstructures, and internal structural accessories of harbor craft and landing craft.

Instruction: Lectures and practical exercises in marine hull repair. Topics include shipfitting, marine pipefitting, and ship carpentry.

Credit Recommendation: In the vocational certificate category, 3 semester hours in welding and metal work (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in welding and metal work (6/74).

AR-1723-0003

METAL WORKING (ENTRY)

Course Number: 9-R-440.0; 9-E-74.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (280–304 hours).

Exhibit Dates: 6/56–12/68.

Objectives: To train personnel to perform as metal working helpers.

Instruction: Lectures and practical exercises on machining, welding, forging and metal body repair, including basic mathematics and drawing interpretation applied specifically to metal body fabrication and repair, the identification and use of hand cutting and measuring tools, the setup and operation of welding equipment and materials, basic operations on the metal hand saw, engine lathe and the drill press, and preventive maintenance, tool inventory and inspection.

Credit Recommendation: In the vocational certificate category, 3 semester hours in metal working or body repair (5/74).

AR-1723-0004

MACHINIST

Course Number: *All Versions:* 9-R-443.1. *Version 1:* 702-44E10; 5ABA-53130 (USAF). *Version 2:* 702-44E20; 5ABA53130 (USAF); 702-443.1. *Version 3:* 9-E-2.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 8-15 weeks (256-488 hours). *Version 2:* 14-16 weeks (434-556 hours). *Version 3:* 10 weeks (350-380 hours).

Exhibit Dates: *Version 1:* 6/76-Present. *Version 2:* 4/58-5/76. *Version 3:* 11/55-3/58.

Objectives: To train enlisted Marine Corps and Air Force personnel to be machinists and Army enlisted personnel to become lathe operators.

Instruction: *All Versions:* Lectures and practical exercises in blueprint reading and sketching, applied shop mathematics, use of technical manuals; theory, set up, and operation of lathe, milling machine, shaper, contour machine, and precision grinding machine; use of hand tools for layout and assembly; use of measuring instruments for maintenance and fabrication of ordnance parts and equipment. *Version 1:* Instruction for Army personnel includes shop fundamentals; use of hand tools, technical manuals, use of measuring instruments maintenance and fabrication of parts and equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 8 semester hours in lathe operation for Army personnel, or 14 in machinist training for Marine Corps and Air Force personnel (1/78). *Version 2:* In the vocational certificate category, 8 semester hours in machine trades or machine technology (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in machine trades or machine technology (5/74); in the upper-division baccalaureate category, 2 semester hours in machine trades or machine technology (5/74). *Version 3:* In the vocational certificate category, 5 semester hours in machine trades or machine technology (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in machine trades or machine technology (5/74); in the upper-division baccalaureate category, 1 semester hour in machine trades or machine technology (5/74).

Related Occupation Codes: 44E.

AR-1723-0005

MACHINIST

Course Number: 702-44E20.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 8 weeks (256 hours).

Exhibit Dates: 7/76-Present.

Objectives: To train enlisted personnel as machinists.

Instruction: Practical exercises and examinations in machine shop techniques, including shop mathematics, drawing and sketching, use of the vertical bandsaw, the milling machine, milling attachments, grinding, welding equipment, and heat treating for the maintenance and fabrication of ordnance parts and equipment.

Credit Recommendation: In the vocational certificate category, 8 semester hours in machine shop (1/78).

Related Occupation Codes: 44E.

AR-1728-0001

ASSOCIATE MILITARY POLICE OFFICER CAREER

Course Number: 19-A-C23.

Location: Provost Marshal General's School, Ft. Gordon, GA; Military Police School, Ft. Gordon, GA.

Length: 14 weeks (507-529 hours).

Exhibit Dates: 6/60-12/68.

Objectives: To qualify officers to perform as commanders, supervisors, or planners of police agency activities.

Instruction: Role of supervising police administrator within combat and peacetime Army operations; tactical employment of the combined arms, staff organization and procedures; mine warfare; supply economy; fundamentals of the Army Command Management System, including programming, budgeting, scheduling, and review and analysis; chemical, biological, and radiological warfare; civil affairs organization, operation, and functions; military leadership; motor vehicle maintenance inspection; military justice; nuclear weapons employment; duties and responsibilities of military police in civil disturbances; operation and supervision of confinement facilities; criminal investigation facilities; methods, procedures, and policies related to military police organizations and operations; prisoners of war; communications; traffic control; civil defense, industrial defense, and natural disaster relief; principles of physical security.

Credit Recommendation: In the upper-division baccalaureate category, 9 semester hours in criminal justice (12/68).

AR-1728-0002

MILITARY POLICE NONCOMMISSIONED OFFICER (NCO) REFRESHER

Course Number: 19-E-13.

Location: Provost Marshal General's School, Ft. Gordon, GA.

Length: 3 weeks (118 hours).

Exhibit Dates: 11/56-12/68.

Objectives: To provide noncommissioned officers with refresher training in the basic duties and functions of the Military Police Corps.

Instruction: Familiarization with chemical, biological, and radiological agents; fundamentals of military law; weapons; civil disturbances; familiarization with the military police criminal investigation program; organization and functions of military police units; traffic control; military confinement facilities; and handling of prisoners of war.

Credit Recommendation: In the vocational certificate category, 3 semester hours in criminal justice (11/73); in the upper-division baccalaureate category, 2 semester hours in criminal justice (12/68).

AR-1728-0003

MILITARY POLICE SUPERVISION (ENLISTED)

(Military Police Supervision)

Course Number: 830-F2; 19-R-951.6; 19-E-4.

Location: Military Police School, Ft. Gordon, GA; Provost Marshal General's School, Ft. Gordon, GA.

Length: 6 weeks (264 hours).

Exhibit Dates: 8/55-3/72.

Objectives: To qualify students to serve as first-line supervisors for police, minor investigation, traffic, security, and corrections operations.

Instruction: Police organizations; police operations and administration; corrections facilities; provost marshal activities; supervision; apprehension; criminal investigation methods; fingerprinting; confessions; public relations; tactical and organizational concepts of military police units; physical security; military police operations at a post, camp, or a station, and in support of combat operations; communication procedures; traffic control; civil emergencies.

Credit Recommendation: In the vocational certificate category, 6 semester hours in criminal justice (11/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in criminal justice (11/73).

Related Occupation Codes: 95B; 95D.

AR-1728-0004

CORRECTIONS AND CONFINEMENT OFFICER

Course Number: 19-O-6.

Location: Provost Marshal General's School, Ft. Gordon, GA.

Length: 4 weeks (156 hours).

Exhibit Dates: 11/54-12/68.

Objectives: To train officers in the administration and operation of installation corrections facilities.

Instruction: Military law; weapons; basic investigative methods; corrections facilities; military police techniques; police administration.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in criminal justice (11/73).

AR-1728-0005

ASSOCIATE MILITARY POLICE COMPANY OFFICER

Course Number: 19-B-C3; 19-O-2.

Location: Provost Marshal General's School, Ft. Gordon, GA.

Length: 13 weeks (490-504 hours).

Exhibit Dates: 8/55-11/59.

Objectives: To provide branch training to officers in the duties and responsibilities appropriate to company-grade Military Police Corps officers.

Instruction: Tactical employment of weapons; fundamental command and staff procedures; marksmanship; introduction to chemical, biological, and radiological warfare; military transportation; military justice; nuclear warfare; civil disturbances; confinement facilities; criminal investigative activities; organization and operations of military police units; prisoners of war; traffic control.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in police methods (12/68).

AR-1728-0006

CORRECTIONAL SUPERVISOR

(Confinement Supervision (Enlisted))

(Confinement Supervision)

Course Number: 831-F3; 19-R-952.6; 19-E-10.

Location: Military Police School, Ft. Gordon, GA; Provost Marshal General's School, Ft. Gordon, GA.

Length: 4-6 weeks (151-218 hours).

Exhibit Dates: 9/55-2/73.

Objectives: To qualify selected noncommissioned officers in the supervision, administration, and operation of installation correction facilities, and as custodial personnel in correctional installations.

Instruction: Fundamentals of military law; weapons; principles of personal encounters; mission, organization, management, and operation of military confinement facilities; techniques of searching people; methods of controlling riots and disorders; basic investigative methods; correctional treatment of confined personnel.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in criminal justice (11/73).

Related Occupation Codes: 95C; 95B.

AR-1728-0007

BASIC CORRECTIONS
(Basic Correctional Specialist)

Course Number: 831-95C10.

Location: Military Police School, Ft. McClellan, AL.

Length: 11–13 weeks (340–408 hours).

Exhibit Dates: *Version 1:* 1/79–Present. *Version 2:* 4/77–1/79.

Objectives: To provide enlisted personnel with basic training necessary to perform duties as an entry-level correctional specialist.

Instruction: Seminars and self-paced instruction on correctional administration, custody, and control; basic marksmanship; and treatment of prisoners.

Credit Recommendation: *Version 1:* Pending evaluation *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal justice (5/77).

Related Occupation Codes: 95C.

AR-1728-0008

1. POLYGRAPH EXAMINER TRAINING
2. POLYGRAPH EXAMINER TRAINING
3. LIE DETECTION
   (Lie Detector Operation)

Course Number: *Version 1:* 7H-F11. *Version 2:* 7H-951B. *Version 3:* 19-N-F3; 19-OE-11; 19-H-F3.

Location: *Version 1:* Military Police School, Ft. McClellan, AL. *Version 2:* Military Police School, Ft. Gordon, GA. *Version 3:* Military Police School, Ft. Gordon, GA; Provost Marshal General's School, Ft. Gordon, GA.

Length: *Version 1:* 14 weeks (506–539 hours). *Version 2:* 12 weeks (440 hours). *Version 3:* 7–8 weeks (258–302 hours).

Exhibit Dates: *Version 1:* 4/70–Present. *Version 2:* 9/65–3/70. *Version 3:* 9/55–8/65.

Objectives: To qualify military and federal civilian investigative/intelligence personnel as polygraph examiners.

Instruction: Polygraph theory and maintenance management; mental and physical evaluation of examinee; polygraph instrumentation and examination; post-test procedures, practical exercises in zone comparison, peak of tension, and general question techniques.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 12 semester hours in criminal justice (11/73); in the graduate degree category, 6 semester hours in criminal justice or forensic science elective (5/77). *Version 2:* In the upper-division baccalaureate category, 5 semester hours in intelligence or police methods (12/68). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in intelligence or police methods (12/68).

Related Occupation Codes: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0009

LAW ENFORCEMENT PRIMARY TECHNICAL BY CORRESPONDENCE

Course Number: R55.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To provide the student with an overview of the problems faced and the procedures employed by the correctional element of the criminal justice system.

Instruction: This correspondence course covers basic procedural law; the philosophy of correctional treatment and rehabilitation; individual and group communication methods; riot control procedures; and basic personnel treatment and management principles. Course includes a proctored end-of-course examination which must be completed as a condition of this credit recommendation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours elective credit in criminal justice (12/78).

Related Occupation Codes: 95C.

AR-1728-0010

CRIMINAL INVESTIGATION

Course Number: *All Versions:* 7H-951A; 832-95D20; 19-OE-12. *Version 2:* 19-N-9322; 19-N-953.1.

Location: *Version 1:* Military Police School, Ft. McClellan, AL. *Version 2:* Military Police School, Ft. Gordon, GA; Provost Marshal General's School, Ft. Gordon, GA.

Length: *Version 1:* 12 weeks (458–480 hours). *Version 2:* 8–9 weeks (352–396 hours).

Exhibit Dates: *Version 1:* 7/75–Present. *Version 2:* 6/54–6/75.

Objectives: To qualify enlisted personnel, warrant officers and officers of the Military Police Corps to conduct and supervise investigations of crimes committed by or against individuals subject to military jurisdiction.

Instruction: Operation and administration of criminal investigation units; methods and techniques of investigation; crime scene investigation; collection, evaluation and preservation of evidence; death investigation; investigation of crimes against people; investigation of crimes against property; capabilities and limitations of scientific analysis of evidence; investigative photography; fingerprinting and report writing and testifying in court.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 12 semester hours in criminal justice (11/73); in the upper-division baccalaureate category, 9 semester hours in criminal justice (11/73). *Version 2:* In the lower-division baccalaureate/associate degree category, 9 semester hours in criminal justice (11/73); in the upper-division baccalaureate category, 5 semester hours in protective services occupations (12/68).

Related Occupation Codes: 95D; 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0011

CRIMINAL INVESTIGATION WARRANT OFFICER ADVANCED
(Criminal Investigation Warrant Officer Intermediate)

Course Number: 7-19-C32; 7-19-C30.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.

Length: 7–8 weeks (238–317 hours).

Exhibit Dates: 9/70–Present.

Objectives: To train criminal investigators to conduct mid-level management of general investigations and to serve as operations officers in CI field offices.

Instruction: Investigative procedures; evidence identification, handling and examination; courtroom procedures, legal questions; management and supervision techniques, research and report writing; military justice; photography; personal security; authority and jurisdiction; crimes; psychology and human behavior; and fraud investigations.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in criminal justice (5/77).

Related Occupation Codes: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0012

CRIME LABORATORY PHOTOGRAPHY

Course Number: None.

Location: Criminal Investigation Laboratory, Ft. Gordon, GA.

Length: 104 weeks (3390 hours).

Exhibit Dates: 8/66–2/72.

Objectives: To train personnel as crime photographers to qualify them as expert witnesses in crime photography before judicial proceedings.

Instruction: Principles of photography; history of photography; photography in law enforcement; optics of photography; light and its management; the camera and its management; theory of the photographic process; photographic sensitometry; photographic chemistry; the negative process; the positive process; color photography; infrared photography; ultraviolet photography; photomicroscopy and macrophotography; cinematography in laboratory work; surveillance support photography; questioned documents examination procedures; firearms support procedures; chemistry support procedures; legal photography; courtroom procedures; the expert witness; record forms and supply procedures required in the operation of the photographic section.

Credit Recommendation: In the vocational certificate category, 30 semester hours (certificate) in forensic photography (4/78); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic forensic science, 6 in basic photography, 6 in police photography, 3 in automated processing equipment, 3 in color photography, and 6 in criminal investigations (4/78); in the upper-division baccalaureate category, 3 semester hours in forensic science, 6 in photomacrography and photomicrography, and 0–3 for research work based on the receiving institution's review of the student's project (4/78).

Related Occupation Codes: 95D; 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0013

1. QUESTIONED DOCUMENTS EXAMINER
   (Document Laboratory Technician)
2. DOCUMENT EXAMINATIONS

Course Number: None.

Location: Military Police School, Ft. McClellan, AL; Criminal Investigation Laboratory, Ft. Gordon, GA.

Length: *Version 1:* 104 weeks (3390–3520 hours). *Version 2 :* 104 weeks (3520 hours).

Exhibit Dates: *Version 1:* 2/72–Present. *Version 2:* 10/66–1/72.

Objectives: To train personnel as document examination technicians to qualify them as expert witnesses in questioned document examination before courts-martial and/or other judicial proceedings.

Instruction: *All Versions:* Handwriting identification; operational familiarization with mechanical aids; handwriting systems; general and special factors; analytical reasoning; typewriting identification; parts nomenclature and operational functions; collecting, indexing, and filing typewriting standards; classification of standards; comparison microscope; Nichols measuring plates; general and special factors; counterfeiting; recognition factors; methods of counterfeiting; Armed Forces documents; commercial printing methods; photographic procedures and camera techniques; paper examinations; ink examinations; firearms identification familiarization; fingerprint identification familiarization; courtroom procedures; research and compendium; ethics of the document examiner; the expert witness; records and forms used in the operation of the document section. *Version 1:* Includes legal aspects of courtroom testimony.

Credit Recommendation: *Version 1:* In the vocational certificate category, 30 semester hours (certificate) in questioned documents examination (4/78); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic forensic science, 6 in basic questioned documents, 3 in typewriting identification, 3 in ink examination, 3 in forensic photography, 3 in paper examination, and 6 in criminal investigation (4/78); in the upper-division baccalaureate category, 3 semester hours in forensic science, 6 in advanced questioned document examination, and 0–3 for research work based on the receiving institution's review of the student's work (4/78); in the graduate degree category, 0–9 semester hours based on the student's research project to be assigned by the receiving institution. Credit is expressed as a range because of the highly individualized study and the practical applied experience required (4/78). *Version 2:* In the vocational certificate category, 12 semester hours in criminal justice (11/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in criminal justice (11/73); in the upper-division baccalaureate category, 3 semester hours in questioned documents, 3 in police photography, and, on the basis of institutional evaluations, 3 semester hours in criminalistics (12/68).

Related Occupation Codes: 95D; 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0014

FINGERPRINT EXAMINATION

Course Number: None.

Location: Criminal Investigation Laboratory, Ft. Gordon, GA.

Length: 104 weeks (3390–3548 hours).

Exhibit Dates: 10/66–2/72.

Objectives: To train personnel to perform as fingerprint technicians and to qualify them as expert witnesses in fingerprint examinations before judicial proceedings.

Instruction: Introduction to fingerprint identification and Bertillon system; pattern interpretation; classification of fingerprints; preserving, marking, and packaging fingerprint evidence; development and comparison of latent fingerprints; casts and molds; report writing and preparation of courtroom charts; courtroom procedures; expert witness observation; chemistry familiarization; document and firearms familiarization; photographic procedures and camera techniques.

Credit Recommendation: In the vocational certificate category, 30 semester hours (certificate) in fingerprint examination (4/78); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic forensic science, 6 in basic fingerprinting, 3 in latent fingerprint techniques, 6 in basic criminal investigation, 3 in fingerprint records, and 6 in basic photography (4/78); in the upper-division baccalaureate category, 3 semester hours in forensic science, 6 in advanced fingerprinting, and 0–3 for the research work based on the receiving institution's review of the student's project (4/78).

Related Occupation Codes: 95D; 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0015

FIREARMS AND TOOL MARKS EXAMINER
(Firearms Examination)

Course Number: None.

Location: Criminal Investigation Laboratory, Ft. Gordon, GA.

Length: 104 weeks (3188–3390 hours).

Exhibit Dates: *Version 1:* 1/69–Present. *Version 2:* 10/66–12/68.

Objectives: To train personnel as firearms and tool marks examiners to qualify them as expert witnesses before judicial proceedings.

Instruction: Principles of firearms and ammunition identification; history of early firearms; cartridge development; modern firearms; weapons manufacture; interior and exterior ballistics; measuring instruments; history of identification; laboratory. handling of evidence; test firing; instruments; bullet comparison; cartridge case comparison; toolmark comparison; serial numbers restoration; criminal investigation laboratory, including examinations made by the chemistry, photography, fingerprint, and document sections of the criminal investigation laboratory, to include administrative and reporting procedures; distance determinations; familiarization with firearms and powder facilities, and reconstruction of explosive devices.

Credit Recommendation: *Version 1:* In the vocational certificate category, 30 semester hours (certificate) in firearms and toolmarks examination (4/78); in the lower-division baccalaureate/associate degree category, 6 semester hours in forensic science, 6 in basic firearms examination, 6 in basic toolmarks examination, 3 in explosive devices, 6 in criminal investigation, and 3 in forensic photography (4/78); in the upper-division baccalaureate category, 6 semester hours in advanced firearms and toolmarks, 3 in forensic science, and 0–3 for research work based on the receiving institution's review of the student's project (4/78); in the graduate degree category, 0–9 semester hours based on the student's research project to be assigned by the receiving institution. Credit is expressed as a range because of the highly individualized study and the practical applied experience required (4/78). *Version 2:* In the vocational certificate category, 12 semester hours in criminal justice (11/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in criminal justice (11/73); in the upper-division baccalaureate category, 3 semester hours in forensic ballistics, 3 in police photography, and, on the basis of institutional evaluations, 3 semester hours each in introductory, intermediate, and advanced criminalistics (12/68).

Related Occupation Codes: 95D; 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0016

CORRECTIONAL SPECIALIST

Course Number: 831-95C20.

Location: Military Police School, Ft. Gordon, GA.

Length: 4 weeks (135–140 hours).

Exhibit Dates: 8/67–4/73.

Objectives: To train enlisted personnel in the basic requirements for the administration, operation, and management of stockades and the correctional treatment of confined personnel.

Instruction: Organizational structure of a post stockade; duties of custodial personnel; physical security; custody and control; disciplinary measures; recreation and welfare activities; emergency procedures; transfer and release procedures; correctional treatment at a disciplinary barracks; legal considerations of confinement.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in criminal justice (11/73).

Related Occupation Codes: 95B; 95C.

AR-1728-0017

LAW ENFORCEMENT (MP-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC
(Law Enforcement (MP-CMF) Noncommissioned Officer Basic)

Course Number: *Version 1:* 8-95-C40. *Version 2:* 8-MP-C40.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.

Length: *Version 1:* 6–8 weeks (244–267 hours). *Version 2:* 9–11 weeks (299–369 hours).

Exhibit Dates: *Version 1:* 7/75–Present. *Version 2:* 9/72–6/75.

Objectives: To train enlisted personnel to perform noncommissioned officer duties in the areas of general law enforcement areas of police operations, traffic control, security operations, corrections, and unit management.

Instruction: Common law enforcement activities and NCO officer development; B Track covers provost marshal operations including identification of crimes and offences; crime prevention programs and police-community relations; military police tactical operations; traffic regulations and accident investigation; and physical security; C Track covers prisoner custody and control operations; correctional treatment procedures; and correctional physical security measures.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in criminal justice (5/77). *Version 2:* In the lower-division baccalaureate/associate degree category, 9 semester hours in criminal justice (6/75).

Related Occupation Codes: 95B.

AR-1728-0018

CORRECTIONAL ADMINISTRATION

Course Number: 7H-F4.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.

Length: 2 weeks (70–73 hours).

Exhibit Dates: 5/72–Present.

Objectives: To provide commissioned officers with a working knowledge of the correctional principles, theories, and practices which are required for administering, operating, and supervising Army corrections facilities at posts, camps, or stations.

Instruction: Management, operation and administration of installation confinement facilities; history of penal treatment; stockade organization; legal considerations of confinement; prisoner accountability; stockade logistics; confessions; report writing;

disciplinary measures; prisoner counseling; problem prisoners; sentence computation.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in corrections administration (11/73).

AR-1728-0019

MINE AND TUNNEL DETECTION DOG HANDLER

Course Number: 010-F4.

Location: Infantry School, Ft. Benning, GA.

Length: 7 weeks (353 hours).

Exhibit Dates: 8/71–Present.

Objectives: To train enlisted personnel to handle, maintain, and employ mine and tunnel dogs in support of U.S. combat forces, to prevent or minimize friendly casualties caused by mines or booby traps, and to find ordnance cached in tunnels.

Instruction: Fundamentals of scout dog training; psychology of dogs; safety in and around kennels; first aid; mine and tunnel detection; obedience training.

Credit Recommendation: In the vocational certificate category, 3 semester hours in criminal justice or animal science (11/73).

Related Occupation Codes: 11B.

AR-1728-0020

CRIMINAL INVESTIGATOR LOGISTICS MANAGEMENT ORIENTATION (CILMOC)

Course Number: 8A-F-20; 832-F3.

Location: Logistics Management Center, Ft. Lee, VA.

Length: 4 weeks (153 hours).

Exhibit Dates: 2/72–Present.

Objectives: To provide criminal investigators with a basic knowledge of the various logistical facilities, systems and activities of the Department of Defense.

Instruction: Lecture conferences; practical exercises; basic procurement procedures; methods and regulations to include legal controls; depot operation and managerial responsibilities within logistical facilities and activities; property disposal; petroleum distribution; port operations; introduction to ADP; commissary operations.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in criminal justice (11/73).

AR-1728-0021

MARIJUANA DETECTOR DOG/HANDLER

Course Number: 830-F6.

Location: Military Police School, Ft. Gordon, GA.

Length: 13 weeks (467–474 hours).

Exhibit Dates: 5/71–11/73.

Objectives: To train marijuana detector dog teams to consistently detect the presence of hidden marijuana.

Instruction: Basic dog handling, including dog capabilities, principles of dog training and safety, care and diet of dogs; detection training, including scent discrimination, marijuana identification, and rules of evidence.

Credit Recommendation: In the vocational certificate category, 6 semester hours in criminal justice (11/73).

Related Occupation Codes: 95B.

AR-1728-0022

TRACKER DOG/HANDLER

Course Number: 830-F5.

Location: Military Police School, Ft. Gordon, GA.

Length: 12 weeks (421 hours).

Exhibit Dates: 11/71–3/72.

Objectives: To provide training for tracker dogs and dog handlers in preparation for integration into a combat tracker team.

Instruction: Basic dog handling, including principles of dog training, safety, care and diet of dogs, and dog obedience and dog/handler relationship; tracking, including scent discrimination, tactics, and jungle survival.

Credit Recommendation: In the vocational certificate category, 6 semester hours in criminal justice (11/73).

Related Occupation Codes: 11B.

AR-1728-0023

MILITARY POLICEMAN

Course Number: 830-95B10.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.

Length: 8 weeks (349 hours).

Exhibit Dates: 2/68–Present.

Objectives: To train enlisted personnel to perform entry-level duties in traffic, security, investigation, and corrections operations.

Instruction: Internal defense and internal development; unarmed defense; driver training; weapons; first aid; military law; vice control; MP communications; civil disturbances; police intelligence; traffic control; prisoners of war; physical security; apprehension and search; criminal investigations; public relations; observation, description and identification.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal justice (11/73); in the upper-division baccalaureate category, 3 semester hours in criminal justice (11/73).

Related Occupation Codes: 95B.

AR-1728-0024

PHYSICAL SECURITY SUPERVISION

Course Number: 19-I-F2.

Location: Provost Marshal General's School, Ft. Gordon, GA; Military Police School, Ft. Gordon, GA.

Length: 3 weeks (104 hours).

Exhibit Dates: 1/54–12/68.

Objectives: To train commissioned and warrant officers in physical security principles, methods, and techniques and to indoctrinate officers in physical security planning, training, and personnel management responsibilities.

Instruction: Principles of physical security, including techniques used to reduce or eliminate security hazards, recognition, and methods; security planning; legal jurisdiction; handling and protection of evidence; civil defense and disaster relief responsibilities; methods of handling personnel problems.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in intelligence or police methods (12/68).

AR-1728-0025

MILITARY POLICE OFFICER FAMILIARIZATION

Course Number: 19-A-C21.

Location: Provost Marshal General's School, Ft. Gordon, GA.

Length: 6 weeks (219 hours).

Exhibit Dates: 6/60–12/68.

Objectives: To provide supervisory level training in the organization, operational functions, duties, and responsibilities of the Military Police Corps.

Instruction: Supervision of police operations; military justice; responsibility in the management and operations of confinement facilities; supervision of criminal investigations; fundamentals of military police organizations, operations and provost marshal functions; signal communications; planning, coordination, and supervision of traffic control for administrative, logistical, and combat operations; civil defense and natural disaster relief; physical security.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in police methods (12/68).

AR-1728-0026

MILITARY POLICE OFFICER BASIC (Military Police Officer Orientation)

Course Number: *Version 1:* 7-19-20-31A. *Version 2:* 7-19-C20; 19-A-C20; 19-A-C1; 19-O-A.

Location: Military Police School, Ft. McClellan, AL; Provost Marshal General's School, Ft. Gordon, GA.

Length: 8–13 weeks (289–554 hours).

Exhibit Dates: *Version 1:* 9/78–Present. *Version 2:* 8/55–8/79.

Objectives: To prepare newly commissioned Military Police Corps officers to supervise police operations, traffic, investigations, and administrative units.

Instruction: Leadership, management, and unit administration; military police operations; investigations; traffic administration; physical security; tactical operations; police communications; weapons; rules of evidence; confessions; interrogations; drug control; principles of investigation.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 6 semester hours in criminal justice and additional credit in advanced military science at schools which normally offer such credit (11/73).

AR-1728-0027

ADVANCED INVESTIGATIVE MANAGEMENT (Criminal Investigation Supervision)

Course Number: *Version 1:* 7H-F2. *Version 2:* 7H-F2. *Version 3:* 19-O-5.

Location: *Version 1:* Military Police School, Ft. McClellan, AL. *Version 2:* Military Police School, Ft. Gordon, GA. *Version 3:* Provost Marshal General's School, Ft. Gordon, GA.

Length: *Version 1:* 4 weeks (152–176 hours). *Version 2:* 4 weeks (176 hours). *Version 3:* 7 weeks (308 hours).

Exhibit Dates: *Version 1:* 5/70–Present. *Version 2:* 3/65–4/70. *Version 3:* 9/56–2/65.

Objectives: To train officers of the Military Police Corps to conduct and supervise investigations of crimes committed by or against individuals subject to military jurisdiction at various organizational levels.

Instruction: Operations and management; evidence; CID reports; administration; records and files; liaison; authority and jurisdiction; evidence; criminal intelligence; crime prevention; surveillance operations; raids; polygraph; protective service; release of information; search and apprehension; notes and sketches; quality control of photos; collection and preservation of evidence; evidence accountability; evidence depository; confessions and admissions; criminal investigations procedures, reports.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in criminal justice manage-

ment (5/77). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in protective service occupations (12/68). *Version 3:* In the upper-division baccalaureate category, 4 semester hours in protective service occupations (12/68).
Related Occupation Codes: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0028

MILITARY POLICE INVESTIGATION

Course Number: 830-ASI-V5; 830-F8.
Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.
Length: 8 weeks (253–303 hours).
Exhibit Dates: 8/72–Present.
Objectives: To qualify selected military policemen for duty as military police investigators.
Instruction: Handling complaints; physical evidence; testimonial evidence; evaluating evidence; investigating drug offenses; reporting; testifying in court.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in criminal investigation (6/75).
Related Occupation Codes: 95B.

AR-1728-0029

LAW ENFORCEMENT

Course Number: 830-95B20; 831-95C20.
Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.
Length: 7–14 weeks (222–494 hours).
Exhibit Dates: 7/73–Present.
Objectives: To provide enlisted personnel with entry-level training to perform those duties involving law enforcement, traffic control and regulation, security, convoy escort, patrolling, crime prevention, rear area protection, and POW operations.
Instruction: Common law enforcement activities and skill development; military police enforcement activities and tactical operations, Army correctional administration and operations.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal justice (5/77).
Related Occupation Codes: 95B.

AR-1728-0030

LAW ENFORCEMENT (MP-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 8-95-C42; 8-MP-C42.
Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.
Length: 8–12 weeks (292–432 hours).
Exhibit Dates: *Version 1:* 10/72–Present.
Objectives: To provide senior noncommissioned officers with advance training to perform senior supervisory level duties in the areas of law enforcement and physical security or corrections operations.
Instruction: Common law enforcement and noncommissioned officer development followed by separate tracks covering 1) police operations; traffic operations, military police combat support/combat service support operations; physical security operations and 2) correctional custody, control, and administration; correctional treatment operations.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in criminal justice for completion of the common core and either track (5/77).
Related Occupation Codes: 95B; 95C; 95D.

AR-1728-0031

ASSOCIATE MILITARY POLICE OFFICER ADVANCED

Course Number: 19-A-C5; 19-O-4.
Location: Provost Marshal General's School, Ft. Gordon, GA.
Length: 14 weeks (509–535 hours).
Exhibit Dates: 8/55–12/60.
Objectives: To provide branch training in the duties and responsibilities of Military Police Corps officers.
Instruction: Tactical employment of the combined arms; staff organization and procedures; mine warfare; supply economy; fundamentals of the Army Command Management System, including programming, budgeting, scheduling, and review and analysis; chemical, biological, and radiological warfare; civil affairs organization, operation, and functions; military leadership; motor vehicle maintenance inspection; military justice; nuclear weapons employment; duties and responsibilities of military police in civil disturbances; operation and supervision of confinement facilities; criminal investigation facilities; methods, procedures, and policies related to military police organizations and operations; prisoners of war; communications; traffic control; civil defense, industrial defense, and natural disaster relief; principles of physical security.
Credit Recommendation: In the upper-division baccalaureate category, 9 semester hours in police methods and administration (12/68).

AR-1728-0032

POLYGRAPH EXAMINER ADVANCED

Course Number: 7H-F10.
Location: Military Police School, Ft. McClellan, AL.
Length: 3 weeks (110 hours).
Exhibit Dates: 10/76–Present.
Objectives: To provide polygraph examiners with advanced training for certification or requalification.
Instruction: To provide an update on technique advancements; proper equipment utilization; question and test structure principles; question formulation and chart interpretation; pre-test and post-test procedures; and conduct of advanced practical exercises.
Credit Recommendation: Credit is not recommended because of the refresher nature of the course and because the new material is insufficient to justify additional credit beyond that recommended for Polygraph Examiner Training (5/77).
Related Occupation Codes: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0033

MILITARY POLICE FIELD GRADE OFFICER REFRESHER

Course Number: 7-19-C8.
Location: Military Police School, Ft. Gordon, GA.
Length: 4 weeks (156 hours).
Exhibit Dates: 10/66–12/68.
Objectives: To provide refresher training in the duties and responsibilities appropriate to field-grade Military Police Corps officers.
Instruction: Fundamentals and principles of staff organization and procedures; application of military justice within units; employment of military police units in civil disturbances; physical security system; prisoner custody and control methods; traffic control; military police operations in a theater of operations.
Credit Recommendation: Credit is not recommended because of the refresher nature of the course (12/68).

AR-1728-0034

MILITARY POLICE OFFICER ORIENTATION

Course Number: 7-19-C21.
Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.
Length: *Version 1:* 6 weeks (210–213 hours). *Version 2:* 4 weeks (152–154 hours).
Exhibit Dates: *Version 1:* 12/73–5/76. *Version 2:* 5/67–11/73.
Objectives: To provide initial branch training and orientation for commissioned officers assigned to the Military Police Corps.
Instruction: Orientation to law enforcement; civil disturbances; criminal and accident investigation; traffic control; munitions; riot control; corrections; physical security; Geneva Conventions, prisoners of war; police communications; drug control.
Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 5 semester hours in criminal investigation (6/75). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in criminal justice (11/73).

AR-1728-0035

1. MILITARY POLICE OFFICER ADVANCED
2. MILITARY POLICE OFFICER ADVANCED
3. MILITARY POLICE OFFICER ADVANCED (Military Police Officer Career)

Course Number: *Version 1:* 7-19-C22. *Version 2:* 7-19-C22. *Version 3:* 7-19-C22; 19-A-C22; 19-A-C4; 19-O-3.
Location: *All Versions:* Military Police School, Ft. McClellan, AL. *Version 2:* Provost Marshal General's School, Ft. Gordon, GA.
Length: *Version 1:* 26 weeks (857 hours). *Version 2:* 33–35 weeks (1065–1125 hours). *Version 3:* 33–35 weeks (875–1540 hours).
Exhibit Dates: *Version 1:* 8/75–Present. *Version 2:* 3/72–7/75. *Version 3:* 10/55–2/72.
Objectives: To provide training in the duties and responsibilities of Military Police Corps officers.
Instruction: *All Versions:* Military leadership; logistics; chemical and biological operations; administration at battalion level; oral and written communication; military organization, operations and provost marshal functions; planning and conducting military police operations during domestic emergencies; methods and techniques used to reduce security hazards; military law; criminal investigation activities, records, and procedures; management, operation, and supervision of confinement facilities; traffic planning and control; methods of handling prisoners of war; command and staff procedures; nuclear weapons employment; military police communications; command post and field exercises. *Version 1:* Includes direction of law enforcement and crime prevention programs; legal aspects of police utilization in an insurgency.
Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 15 semester hours in criminal justice or security administration (5/77). *Version 2:* In the upper-division baccalaureate category, 24 semester hours in criminal justice, 5 in business administration and management

(12/73). *Version 3:* In the upper-division baccalaureate category, 6 semester hours in police methods and administration, 6 in business organization and management (12/68).

AR-1728-0036

1. Interrogation Officer
2. Prisoner of War Interrogation Officer

Course Number: *Version 1:* 3A-9316. *Version 2:* 30-A-9316; 30-0-13.

Location: Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 6 weeks (212 hours). *Version 2:* 10 weeks (350 hours).

Exhibit Dates: *Version 1:* 10/66–6/71. *Version 2:* 11/57–9/66.

Objectives: To train commissioned officers to direct and participate in the collection of tactical and strategic intelligence through the interrogation of human sources and the exploitation of documents.

Instruction: Familiarization with counterintelligence activities, area intelligence, aerial surveillance and reconnaissance, and photo reading and interpretation; order of battle and organization and tactics of selected foreign armies; methods of interrogation and document exploitation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in police interrogation, police intelligence operations, or police administration (1/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in police interrogation, police intelligence operations, or police administration (1/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (12/68). *Version 2:* In the vocational certificate category, 12 semester hours in police interrogation, police intelligence, or police administration (1/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in police interrogation, police intelligence, or police administration (1/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (12/68).

AR-1728-0037

1. Interrogator
   (Interrogation)
2. Interrogation (Enlisted)
   (Prisoner of War Interrogation Enlisted)
3. Prisoner of War Interrogation Enlisted

Course Number: *Version 1:* 241-96C20. *Version 2:* 241-96C2L; 241-966;1 30-R-966.1. *Version 3:* 30-E-9.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Holabird, MD. *Version 3:* Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 7–9 weeks (231–305 hours). *Version 2:* 7–10 weeks (255–264 hours). *Version 3:* 13 weeks (455 hours).

Exhibit Dates: *Version 1:* 9/72–Present. *Version 2:* 1/61–8/72. *Version 3:* 4/57–12/60.

Objectives: To train qualified interpreters in the conduct of intelligence interrogations, screening operations and foreign document exploitation.

Instruction: Map and photo reading; combat intelligence; evaluation, interpretation, and dissemination of information; area and counterintelligence; order of battle; military organization and tactics of selected foreign countries; interrogation methods; document exploitation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 9 semester hours in interrogation, intelligence operations, or police administration (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in interrogation, intelligence operations, or police administration (6/75); in the upper-division baccalaureate category, 3 semester hours in interrogation, intelligence operations, or police administration (6/75). *Version 2:* In the vocational certificate category, 9 semester hours in interrogation, intelligence operations, or police administration (2/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in interrogation, intelligence operations, or police administration (2/74); in the upper-division baccalaureate category, 2 semester hours in intelligence methods (8/68). *Version 3:* In the vocational certificate category, 12 semester hours in interrogation, intelligence operations, or police administration (2/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in interrogation, intelligence operations, or police administration (2/74); in the upper-division baccalaureate category, 3 semester hours in intelligence methods (8/68).

Related Occupation Codes: 96C; 04B; 96B.

AR-1728-0038

Cryptanalytic Specialist
(Cryptanalysis)

Course Number: 232-98B20.

Location: Security Agency School, Ft. Devens, MA.

Length: 19 weeks (658 hours).

Exhibit Dates: 1/51–Present.

Objectives: To provide selected enlisted personnel with a working knowledge of the analytic techniques involved in cryptanalysis.

Instruction: Organization, mission, and functions of the U.S. Army Security Agency; terminology and cryptography of basic systems; analytic techniques and procedures in elementary systems analysis; processes and procedures of operational systems.

Credit Recommendation: In the vocational certificate category, 6 semester hours in telecommunications or business communications (1/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in telecommunications or business communications (1/74); in the upper-division baccalaureate category, 6 semester hours in telecommunications or business communications (1/74).

Related Occupation Codes: 98B.

AR-1728-0039

Interrogator, Skill Development Base

Course Number: 241-96C2L-I.

Location: Intelligence School, Ft. Holabird, MD.

Length: 14 weeks (507 hours).

Exhibit Dates: 7/69–Present.

Objectives: To prepare interrogators as supervisors and technicians.

Instruction: Strategic intelligence components relative to Southeast Asia; functions of imagery interpretation; order of battle; intelligence-gathering agencies; interrogation methodology; basic fundamentals of problem solving; interrogation psychology.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in police administration (1/74); in the upper-division baccalaureate category, 3 semester hours in police administration (1/74).

Related Occupation Codes: 96C.

AR-1728-0040

Interrogation (Enlisted Non-Linguist)

Course Number: 241-96C20.

Location: Intelligence School, Ft. Holabird, MD.

Length: 4 weeks (145 hours).

Exhibit Dates: 1/67–12/68.

Objectives: To train enlisted, nonlinguist personnel in the techniques required for the collection of tactical intelligence information through interrogations employing interpreters.

Instruction: Handling of prisoners of war; enemy documents for intelligence; screening operations; interrogation techniques and application of methods.

Credit Recommendation: In the vocational certificate category, 2 semester hours in criminal investigation/police administration (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in criminal investigation/police administration (1/74); in the upper-division baccalaureate category, credit in criminal investigation/police administration on the basis of institutional evaluation (12/68).

AR-1728-0041

Law Enforcement Basic Technical 95B/D by Correspondence

Course Number: RO2.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To familiarize the student with various specialized aspects of law enforcement and security operations, including basic supervisory and administrative methods and responsibilities.

Instruction: This correspondence course covers principles of industrial and physical security; elements of traffic law enforcement; principles of traffic accident investigation; enforcement data statistical and analytic techniques; and special enforcement problems such as narcotics control, hostage and terrorist situations, crowd control, and civil disturbance control. Course concludes with a proctored end-of-course examination which must be completed as a condition of this credit recommendation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal justice (12/78).

AR-1728-0042

United States Army Security Agency (USASA) Officer Career (U)

Course Number: 3-32-C22; 32-A-C22.

Location: Security Agency School, Ft. Devens, MA.

Length: 20 weeks (739 hours).

Exhibit Dates: 6/66–Present.

Objectives: To prepare officers for the U.S. Army Command and General Staff College and for command, staff, and operational positions with the United States Army Security Agency.

Instruction: Lectures and practical exercises on the duties of Army Security Agency officers, including nuclear warfare, combined arms, special warfare, command and staff, unit readiness, USASA organization and functions, acoustical and electronic intelligence and countermeasures, communications security, communications, and international studies seminar.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management, 3 in intelligence methods, and, on the basis of institutional evaluation, credit in political science (5/74).

AR-1728-0043

Physical Security

Course Number: *All Versions:* 830-F3. *Version 2:* 7H-F3.

Location: Military Police School, Ft. McClellan, AL.

Length: *Version 1:* 3 weeks (114-132 hours). *Version 2:* 2 weeks (73 hours).

Exhibit Dates: *Version 1:* 5/73-Present. *Version 2:* 1/72-4/73.

Objectives: To train first line supervisory police personnel in the principles and practicalities of physical security for installations.

Instruction: Lectures and practical exercises in various aspects of physical security, including the use of guards, dogs, fencing, lighting, alarms, locking devices, fund handling procedures, and the legalities of security principles.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in law enforcement, police administration, security administration, or criminal justice (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in law enforcement, police administration, security administration, or criminal justice (7/74); in the upper-division baccalaureate category, 3 semester hours in law enforcement, police administration, security administration, or criminal justice (7/74). *Version 2:* In the vocational certificate category, 2 semester hours in law enforcement, police administration, security administration, or criminal justice (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in law enforcement, police administration, security administration, or criminal justice (7/74); in the upper-division baccalaureate category, 2 semester hours in law enforcement, police administration, security administration, or criminal justice (7/74).

Related Occupation Codes: 95B.

AR-1728-0044

Security Management

Course Number: 7H-F3.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.

Length: 3 weeks (93-115 hours).

Exhibit Dates: 12/73-Present.

Objectives: To train security supervisors to plan and implement physical security measures.

Instruction: Lectures and practical exercises in security management, security hazards, lighting systems, physical security inspection, and preparation of physical security plans.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in security management (6/75).

Related Occupation Codes: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0045

Judge Advocate Officer Basic, Phase I

Course Number: 5-27-C20.

Location: Military Police School, Ft. Gordon, GA.

Length: 4 weeks (128 hours).

Exhibit Dates: 3/74-7/75.

Objectives: To prepare newly commissioned Judge Advocate General Officers for their first duty assignments.

Instruction: Lectures and practical exercises in military leadership and management, law enforcement, and tactical operations.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/75).

AR-1728-0046

Fire Fighter

Course Number: 780-51M20.

Location: Aviation School, Ft. Rucker, AL.

Length: 5 weeks (180 hours).

Exhibit Dates: 6/69-Present.

Objectives: To provide personnel with sufficient knowledge to become fire fighters.

Instruction: Lectures and practical exercises in fire department organization and equipment; construction of typical military buildings; area and unit fire marshalls; classification of fires; breathing apparatus; driver training; map reading; forcible entry; hand signals; water supplies; ropes, knots, and hitches; and radio and telephone communications.

Credit Recommendation: Credit is not recommended because of the specialized nature of the course (7/74).

Related Occupation Codes: 51M.

AR-1728-0047

Military Police Officer Advanced Resident/Nonresident

Course Number: 7-19-C23.

Location: Military Police School, Ft. McClellan, AL.

Length: Resident/nonresident program with resident phases totalling 8 weeks (520 hours).

Exhibit Dates: 1/77-Present.

Objectives: To provide advanced training and education in the duties and responsibilities of commissioned officer reservists in the Military Police Corps.

Instruction: Major areas of instruction cover security management; administration and operation of corrections facilities; civil disturbance control operations; and military police tactical operations.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (5/77)

AR-1728-0048

Latent Fingerprint Examiner (Fingerprint Technician)

Course Number: None.

Location: Criminal Investigation Laboratory, Ft. Gordon, GA; Military Police School, Ft. Gordon, GA.

Length: 104 weeks (3528-3548 hours).

Exhibit Dates: 2/72-Present.

Objectives: To train personnel as latent-fingerprint examiners and to qualify them as expert witnesses in fingerprint, footwear, and tire and fabric impression identification before judicial proceedings.

Instruction: Course is designed to develop proficiency in developing latent finger, palm and sole prints on evidentiary items and comparing latent prints with recorded inked prints of subjects, victims, and witnesses; identifying footwear, tire and lip, ear, and fabric impressions; accomplishing post mortem identification of deceased personnel by means of finger or sole prints; classifying record fingerprints; testifying as an expert court witness, course provides selected students with the basic requirements of photography, its relationship and importance to identification, and the use and nomenclature of photographic equipment; the methodology employed in questioned document examination; the procedures of handling and marking physical evidence to preserve its evidentiary value and the methods used in packaging evidence; the various concepts in automated fingerprint systems, including computer identification of latent fingerprints; an orientation in firearms and toolmark identification; and an understanding of the physical, chemical, and electronic techniques of fingerprinting.

Credit Recommendation: In the vocational certificate category, 30 semester hours (certificate) in fingerprint examination (4/78); in the lower-division baccalaureate/associate degree category, 6 semester hours in forensic science, 6 in basic fingerprinting, 3 in latent-fingerprint techniques, 6 in basic criminal investigation, 3 in fingerprint records, and 6 in basic photography (4/78); in the upper-division baccalaureate category, 3 semester hours in forensic science, 6 in advanced fingerprinting, and 0-3 for the research work based on the receiving institution's review of the student's project (4/78); in the graduate degree category, 0-9 semester hours based on the student's research work to be assigned by the receiving institution; credit is expressed as a range because of the highly individualized study and the practical applied experience required (4/78).

Related Occupation Codes: 951E.

AR-1728-0049

Law Enforcement Basic Technical 95C by Correspondence

Course Number: R12.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79-Present.

Objectives: To provide students with a survey of the structure and function of correctional facilities within a criminal justice system.

Instruction: This correspondence course covers an introduction to custody, treatment, and administration in the penal and correctional setting and teaches the handling of civil disorders. The course includes a proctored end-of-course examination which must be completed as a condition of this credit recommendation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to corrections (12/78).

Related Occupation Codes: 95C.

AR-1728-0050

Law Enforcement Advanced Noncommissioned Officer (NCO) 95B/D by Correspondence

Course Number: SO2.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To develop understanding of management and supervisory techniques, methods, and responsibilities in the field of security and law enforcement.

Instruction: This correspondence course covers fundamentals of personnel management and supervision; techniques and methods of instruction; development of instructional objectives; basic substantive and procedural elements of criminal law; principles of industrial, personnel and physical security; motor vehicle traffic management; compilation, computation, and analysis of selective enforcement data, and general management and planning of law enforcement and security operations. This correspondence course includes a comprehensive end-of-course proctored examination which must be completed as a condition of the credit recommendation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in criminal justice (12/78).

Related Occupation Codes: 95B; 95D.

AR-1728-0051

Law Enforcement Primary Technical 95B/D by Correspondence

Course Number: R50.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To provide the student with an overview of the problems faced and the procedures employed by the law enforcement element of the criminal justice system.

Instruction: This correspondence course covers basic procedural law; civil disorder and riot control procedures; individual and group communication methods; physical security devices and procedures; methods and procedures of first-echelon supervision; and general law enforcement operations. The course includes a comprehensive proctored end-of-course examination which must be completed as a condition of this credit recommendation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in criminal justice (12/78).

Related Occupation Codes: 95B; 95D.

AR-1728-0052

Basic Military Police Branch Qualification by Correspondence

Course Number: H77.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To generally introduce the varied roles of the police officer in the criminal justice system and the law authority and boundaries affecting these roles.

Instruction: Topics covered in this correspondence course include criminal law and procedures, crime scene investigation, riot control, physical security, patrol and traffic control activities. Course includes a proctored end-of-course examination which must be completed as a condition of this credit recommendation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours of elective credit in law enforcement (12/78).

AR-1728-0053

Advanced Military Police Branch Qualification by Correspondence

Course Number: H20.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 260 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To provide an intensified introduction to some of the major police roles in modern society.

Instruction: Topics covered in this correspondence course include the criminal and military law background of police operations, investigations, civil disturbances, physical security, and traffic control. Course concludes with a comprehensive proctored, end-of-course examination which must be completed as a condition of this recommendation.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours as an elective in law enforcement (12/78).

AR-1728-0054

Law Enforcement Advanced Noncommissioned Officer (NCO) 95C by Correspondence

Course Number: S12.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 208 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To enable students in supervisory roles to obtain a foundation in criminal justice systems with special emphasis in correctional law and administration.

Instruction: Course provides exposure to the law enforcement role in civil disorders and the management of correctional programs. This correspondence course includes extensive sections on criminal law (civil and military). This correspondence course includes a proctored end-of-course examination which must be completed as a condition of this credit recommendation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours of elective credit in criminal justice (12/78).

Related Occupation Codes: 95C.

AR-1728-0055

Criminal Investigation by Correspondence

Course Number: 101.

Location: Institute for Professional Development, Ft. eustis, VA.

Length: Maximum 156 weeks (Ft. eustis, VA hours).

Exhibit Dates: 6/79–Present.

Objectives: To provide the student with an understanding of the policies, practices and procedures of criminal investigations and the importance of forensic science as an essential supportive aid to crime solution.

Instruction: Course covers criminal law; methods and procedures of criminal investigation; criminalistics; and investigative photography. The course includes a proctored end-of-course examination which must be completed as a condition of this credit recommendation.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in criminal investigations (12/78).

AR-1728-0056

Criminal Investigation Reserve Component (Nonresident/Resident)

Course Number: 7H-951A-RC; 830-95D10-RC.

Location: Military Police School, Ft. McClellan, AL.

Length: Resident 2 weeks (80 hours).

Exhibit Dates: 12/77–Present.

Objectives: To provide reserve warrant officers and enlisted personnel with a working knowledge concerning the conduct of investigating crimes believed to have been committed by or against individuals subject to military jurisdiction.

Instruction: Topics in resident phase include law review, collection and preservation of evidence, interviews and interrogation, latent fingerprints, questioned documents, and fraud investigation.

Credit Recommendation: Pending evaluation.

AR-1728-0057

Military Police Investigation Reserve Component (Nonresident/Resident)

Course Number: 830-F8-RC.

Location: Military Police School, Ft. McClellan, AL.

Length: Resident 2 weeks (77 hours).

Exhibit Dates: 4/78–Present.

Objectives: To qualify reserve military policemen as investigators.

Instruction: Resident phase includes collection and preservation of evidence, photography, interviews and interrogation.

Credit Recommendation: Pending evaluation.

AR-1728-0058

Military Police Officer Advanced Correspondence

Course Number: E23.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 260 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 12/79–Present.

Objectives: To provide the student with a knowledge of the administrative and operational policies, practices and procedures employed by middle management in law enforcement.

Instruction: This correspondence course covers administrative, personnel and financial management; individual and group communication methods; procedural law; criminal investigations; civil disturbances; security management; corrections administration; traffic control; police organization and functions; and drug abuse orientation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in law enforcement administration and management; 3 in criminal investigation, 3 in security management. Course concludes with a proctored end-of-course examination which must be successfully completed to qualify for credit recommendation (12/79).

AR-1728-0059

Military Police Officer Basic Correspondence

Course Number: E01.

Location: Institute for Professional Development, Ft. Eustis, VA.

Length: Maximum 156 weeks (Ft. Eustis, VA hours).

Exhibit Dates: 12/79–Present.

Objectives: To familiarize the student with mid-level managerial and supervisory responsibilities in the establishment and operation of law enforcement and security programs.

Instruction: This correspondence course covers military police organizational and operational methods, as well as certain specializaed subjects common to other areas of general military operations. It includes essentials of personnel management and supervision; methods of instruction and lesson planning; introduction to data processing systems and methods; physical security system, devices and surveys; substantive and procedural criminal law; supervision of confinement facilities, and organization and management of law enforcement, crime prevention and investigative activities.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in police organization and management (12/79). Credit recommendation is based on successful completion of proctored end-of-course examination.

AR-1729-0001

1. MESS STEWARDS
2. MESS MANAGEMENT

Course Number: *Version 1:* 800-F1; 10-R-F22. *Version 2:* 10-R-941.6.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 5 weeks (236 hours). *Version 2:* 6 weeks (264–284 hours).

Exhibit Dates: *Version 1:* 7/64–12/68. *Version 2:* 11/58–6/64.

Objectives: To provide enlisted personnel with a working knowledge of mess management.

Instruction: *All Versions:* An introduction to food service management, emphasizing food preparation, baking, and basic meat cutting, with introductory material on nutrition and menu planning. *Version 2:* Leadership and applied management.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 2 semester hours in institutional management (12/68). *Version 2:* In the vocational certificate category, 4 semester hours in hotel, restaurant, and institutional management (12/73); in the lower-division baccalaureate/associate degree category, 4 semester hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 2 semester hours in institutional management (12/68).

Related Occupation Codes: 94B.

AR-1729-0002

MEAT CUTTING

Course Number: 10-R-942.1.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (352 hours).

Exhibit Dates: 11/57–12/68.

Objectives: To train enlisted personnel to cut meat in a central meat processing facility and to prepare processed meat, poultry, and fish for delivery to mess kitchens and other using agencies.

Instruction: Practical laboratory experience in meat cutting, including skill training, meat grading, meat cooking, and meat spoilage.

Credit Recommendation: In the vocational certificate category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 3 semester hours in hotel, restaurant, and institutional management (12/73).

AR-1729-0003

ENLISTED AIDES

Course Number: None.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (288 hours).

Exhibit Dates: 7/70–Present.

Objectives: To provide formal training in the duties and responsibilities of enlisted personnel assigned to public quarters occupied by general officers.

Instruction: Basic food preparation and catering, including all phases of cooking and baking plus elements of purchasing and sanitation; strong emphasis on lecture, demonstration, laboratory work, and practical experience.

Credit Recommendation: In the vocational certificate category, 6 semester hours in hotel, restaurant, and institutional management (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 6 semester hours in hotel, restaurant, and institutional management (12/73).

Related Occupation Codes: 94B; 00H.

AR-1729-0004

HOSPITAL FOOD SERVICE SPECIALIST

Course Number: 800-94F10; 800-94F20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 10–12 weeks (400–452 hours).

Exhibit Dates: *Version 1:* 5/78–Present. *Version 2:* 6/75–4/78.

Objectives: To train personnel to perform food preparation and distribution activities and apply diet therapy principles to the preparation of modified food required in patient meal service.

Instruction: Lectures and practical exercises in food service administration, nutrition, dietetics, quantity food preparations, and sanitation.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in basic nutrition, 3 in clinical dietetics, 6 in quantity food service and preparation, and 1 in food service administration (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in nutrition, 2 in clinical dietetics, 6 in quantity food preparation, 1 in food service administration and sanitation (6/77).

Related Occupation Codes: 94F.

AR-1729-0005

HOSPITAL MESS STEWARD

Course Number: 800-94F40.

Location: Walter Reed Army Medical Center, Washington, DC.

Length: 7 weeks (308 hours).

Exhibit Dates: 9/71–Present.

Objectives: To qualify enlisted personnel to perform administrative, direct nutritional care, financial management, and supply tasks in the operation of a hospital food service.

Instruction: Covers the areas of training, nutrition and diet therapy, equipment and supply management, food production, and service management in hospital food service management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 3 semester hours in food service management (9/72).

Related Occupation Codes: 94F.

AR-1729-0006

HOSPITAL DIET COOK

Course Number: 800-94B30.

Location: Fitzsimons General Hospital, Denver, CO.

Length: 12 weeks.

Exhibit Dates: 7/72–Present.

Objectives: To train enlisted personnel to prepare regular and modified-diet foods and to direct less skilled cooks in the preparation of modified-diet food.

Instruction: Diet and nutrition; cooking.

Credit Recommendation: Insufficient data for evaluation (12/73).

Related Occupation Codes: 94B.

AR-1729-0007

FOOD SERVICE (FS-CMF) NCO BASIC

Course Number: 8-FS-C40.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8–12 weeks (320–480 hours).

Exhibit Dates: 3/72–Present.

Objectives: To train enlisted personnel to perform as food service supervisors.

Instruction: Academic subjects of leadership, communications, and organization and management as applied to all phases of food services, including meat fabrication, the kitchen, bakery, dining room service, field kitchens, and short-order facilities.

Credit Recommendation: In the vocational certificate category, 3 semester hours in organization and management (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in organization and management (12/73); in the upper-division baccalaureate category, 3 semester hours in organization and management (12/73).

Related Occupation Codes: 94B; 94D.

AR-1729-0008

FOOD SERVICE (FS-CMF) NCO ADVANCED

Course Number: 8-FS-C42.

Location: Quartermaster School, Ft. Lee, VA.

Length: 12 weeks (480 hours).

Exhibit Dates: 8/72–Present.

Objectives: To train noncommissioned officers to perform in upper-level food service management positions.

Instruction: Academic subjects of leadership, communications, and maintenance as applied to food service areas of nutrition and menu planning, sanitation, meat fabrication, food preparation, dining services, and field kitchens.

Credit Recommendation: In the vocational certificate category, 3 semester hours in organization and management (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in organization and management (12/73); in the upper-division baccalaureate category, 3 semester hours in organization and management (12/73).

Related Occupation Codes: 94B; 94C; 94D.

AR-1729-0009

Food Service Specialist
(Cooking)

Course Number: *All Versions:* 800-94B10; 800-94B20; 10-R-941.1; 10-E-18. *Version 1:* 8E-43A.

Location: Army Training Center, Ft. Jackson, SC; Army Training Center, Ft. Dix, NJ; Army Training Center, Ft. Ord, CA; Army Training Center, Ft. Lee, VA; Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (279-352 hours).

Exhibit Dates: 9/54-Present.

Objectives: To train personnel in the terminology and basic techniques of food preparation, equipment operation and maintenance, recipes, and sanitation.

Instruction: Small- and large-quantity cooking, baking, and meat cutting; basic food theory; care and operation of large-sized equipment under field condition; duties and responsibilities of food service personnel.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in food preparation (12/73).

Related Occupation Codes: 94B.

AR-1729-0010

1. Baking
2. Bread Baking

Course Number: *All Versions:* 800-94D20. *Version 2:* 10-R-943.1.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 9-10 weeks (320-350 hours). *Version 2:* 5-9 weeks (175-282 hours).

Exhibit Dates: *Version 1:* 5/66-Present. *Version 2:* 8/57-4/66.

Objectives: To provide enlisted personnel with a working knowledge of small- and large-quantity baking, and to train them to produce bread, menu pastry items, and specialty pastry items in mobile field baking units and central pastry kitchens.

Instruction: Introduction to baking, including terminology, basic baking techniques, and recipes; operation of small- and large-quantity baking equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 6 semester hours in food preparation (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in food preparation (12/73); in the upper-division baccalaureate category, 6 semester hours in food preparation (12/73). *Version 2:* Credit is not recommended credit because of the limited technical nature of the course (12/73).

Related Occupation Codes: 94D.

AR-1729-0011

1. Food Service Supervisor
   (Food Service Supervision, Enlisted)
2. Food Service Supervision, Enlisted
3. Food Service Supervision, Enlisted

Course Number: *Version 1:* 800-F2; 10-R-F23. *Version 2:* 10-R-941.7. *Version 3:* 10-E-21.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 8-9 weeks (293 hours). *Version 2:* 11 weeks (352-359 hours). *Version 3:* 16 weeks (576 hours).

Exhibit Dates: *Version 1:* 1/64-Present. *Version 2:* 11/58-12/63. *Version 3:* 9/54-10/58.

Objectives: To train mid-management personnel to coordinate and operate food service activities.

Instruction: *All Versions:* Mess management; nutrition and menu planning; supervision of meat processing and baking facilities; analysis of food preparation; field messing operations; supervision of mess facilities. *Version 3:* Applied cookery; applied baking.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in hotel-restaurant institutions (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel-restaurant institutions (12/73); in the upper-division baccalaureate category, 3 semester hours in food service management (12/68). *Version 2:* In the vocational certificate category, 3 semester hours in hotel-restaurant institutions (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel-restaurant institutions (12/73); in the upper-division baccalaureate category, 4 semester hours in food service management (12/68). *Version 3:* In the vocational certificate category, 6 semester hours in hotel-restaurant institutions (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in hotel-restaurant institutions (12/73); in the upper-division baccalaureate category, 5 semester hours in food service management (12/68).

Related Occupation Codes: 94B.

AR-1729-0012

1. Club Management
2. Club Management
3. Club Management
   (Open Mess Management)
   (Consolidated and Open Mess)

Course Number: *All Versions:* 83E-43; 8E-4112; 8E-021A; 800-00J50. *Version 1:* 8E-43A. *Version 3:* 8E-F2; 801-F1; 10-D-F26; 10-E-4110; 10-E-20.

Location: Institute of Administration, Ft. Benjamin Harrison, IN; Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 2-8 weeks (70-288 hours). *Version 2:* 1-7 weeks (49-240 hours). *Version 3:* 7-8 weeks (308-332 hours).

Exhibit Dates: *Version 1:* 11/77-Present. *Version 2:* 12/74-10/77. *Version 3:* 8/55-11/74.

Objectives: To train personnel to operate and manage military clubs.

Instruction: *Version 1:* Note: This course includes three phases which the student may attend consecutively or individually in any order. Phase I- Management and Administration includes topics on the Army club system, management, personnel, operations and entertainment. Phase II- Financial Management includes topics on accounting and internal control. Phase III-Food and Beverage Operations includes topics on food and beverage operations. *Version 2:* Note: This course includes three phases which the student may attend consecutively or individually in any order. Phase I - Management and Administration includes topics on the Army club system, management, personnel, operations and entertainment. Phase II - Financial Management includes topics on accounting and internal control. Phase III - Food and Beverage Operations includes topics on food and beverage operations. *Version 3:* A comprehensive course in club management, covering food planning and control, general management, equipment and sanitation, accounting, and business law.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of management for students completing Phase I (1/78); in the upper-division baccalaureate category, 2 semester hours in financial management for students completing Phase II, 2 semester hours in restaurant management for students completing Phase III (2/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in club management for those students completing Phase I, 1 semester hour in club financial control for those students completing Phase II, 1 semester hour in club food and beverage control for those students completing Phase III (see note above) (6/75). *Version 3:* In the vocational certificate category, 3 semester hours in hotel, restaurant, and institutional management, 2 in food and nutrition (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel, restaurant, and institutional management, 2 in food and nutrition (12/73); in the upper-division baccalaureate category, 3 semester hours in hotel, restaurant, and institutional management, 2 in food and nutrition (12/68).

Related Occupation Codes: 71L; 73D; 94B; 00J; 03B; 73D; 94B; 00J; 03B.

AR-1729-0013

Unit Mess Officer
(Mess Administration)

Course Number: 8E-F1; 10-A-F2; 10-B-F2; 10-O-9.

Location: Quartermaster School, Ft. Lee, VA.

Length: 3-4 weeks (105-140 hours).

Exhibit Dates: 5/55-Present.

Objectives: To train officers to operate and manage unit messes.

Instruction: Basic food production, including cooking, baking, and nutrition and menu planning.

Credit Recommendation: In the vocational certificate category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 3 semester hours in institutional/culinary management (12/68).

AR-1729-0014

1. Food Adviser/Technician
2. Food Service Supervision
3. Food Service Supervision

Course Number: *Version 1:* 8E-4114; 8E-941A. *Version 2:* 10-B-4114. *Version 3:* 10-B-941A; 10-O-5.

Location: Quartermaster School, Ft. Lee, VA.

Length: *Version 1:* 12 weeks (511 hours). *Version 2:* 12 weeks (420 hours). *Version 3:* 16 weeks (560 hours).

Exhibit Dates: *Version 1:* 7/68-Present. *Version 2:* 7/63-6/68. *Version 3:* 6/55-6/63.

Objectives: To provide commissioned officers and warrant officers with a working knowledge of food preparation, cooking and serving, and the duties and functions of food advisers.

Instruction: Theory and principles of cooking; operation of dining facilities and equipment; food preparation; menu planning; nutrition and food services; organization and management.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in organization and management (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in organization and management (12/73); in the upper-division baccalaureate category, 3 semester hours in organization and management (12/73). *Version 2:* In the vocational certificate category, 4 semester hours in food preparation, 3 in organization and management (12/73); in the lower-division baccalaureate/associate degree category, 4 semester hours in food preparation, 3 in organization and management (12/73); in the upper-division baccalaureate category, 3 semester hours in food preparation and nutrition, 3 in food service management (12/68). *Version 3:* In the vocational certificate category, 4 semester hours in food preparation, 3 in basic nutrition, 3 in organization and management (12/73); in the lower-division baccalaureate/associate degree category, 4 semester hours in food preparation, 3 in basic nutrition, 3 in organization and management (12/73); in the upper-division baccalaureate category, 3 semester hours in food preparation, 3 in nutrition, 3 in food service management (12/68).

Related Occupation Codes: 041A; 941A.

AR-1729-0015

Subsistence Procurement Quality Assurance and Standardization

Course Number: 6G-F2; 321-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 3 weeks (118 hours). *Version 2:* 2 weeks (75 hours).

Exhibit Dates: *Version 1:* 3/78–Present. *Version 2:* 11/76–2/78.

Objectives: To provide officer and enlisted veterinary specialists with standardized training to supervise/train subordinate personnel in the performance of procurement quality assurance tasks.

Instruction: *All Versions:* Lectures and practical exercises in food technology, administration and food preparation. *Version 1:* Course includes inspection and sanitation procedures. Personnel in 321-F3 receive additional instruction in anatomy and pathology.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in food technology, 1 in food sanitation (officers completing the course receive an additional 1 credit in administration) (8/79); in the upper-division baccalaureate category, 2 semester hours in anatomy and pathology for enlisted personnel completing the course (8/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in administration, 2 in food technology (6/77).

AR-1729-0016

Hospital Food Service Specialist (Basic) Reserve Component (Correspondence, Resident, Nonresident).

Course Number: 800-94F10(RC).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase II—2 weeks (80 hours).

Exhibit Dates: 9/78–Present.

Objectives: To train students in basic clinical dietetics, food preparation, and food distribution.

Instruction: Phase II, the resident portion of the course, consists of conferences and practical exercises in clinical dietetics, including preparation of specialized diets and quantity food preparation, including food service in nonfixed facilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in clinical dietetics, 1 in quantity food production (8/79). NOTE: Phases I, III, and IV are non-resident in nature and receive no credit. Credit is based on Phase II only.

Related Occupation Codes: 94F; 94B.

AR-1730-0001

Refrigeration Equipment Repair

Course Number: 720-51L20; 5-E-13.

Location: Engineer School, Ft. Belvoir, VA.

Length: 11–13 weeks (387–474 hours).

Exhibit Dates: 4/56–Present.

Objectives: To train enlisted personnel to install, assemble, operate, maintain, and repair refrigeration and air-conditioning units.

Instruction: Lectures and practical exercises in installation, assembly, operation, maintenance and repair of refrigeration and air-conditioning units, including refrigeration systems theory, system components, electrical theory, mechanical and electrical systems analysis, gasoline engines, accessories and controls of refrigeration equipment, specific equipment usage, and operation of ice plants, cold storage warehouses, and heaters.

Credit Recommendation: In the vocational certificate category, 15 semester hours in mechanical and electrical refrigeration service (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical and electrical refrigeration service on the basis of institutional evaluation (5/74).

Related Occupation Codes: 51L; 51P.

AR-1730-0002

Engineer Missile Equipment Maintenance

Course Number: 633-62C20.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 9 weeks (292 hours). *Version 2:* 11 weeks (369–386 hours). *Version 3:* 9–10 weeks (343–361 hours).

Exhibit Dates: *Version 1:* 9/74–Present. *Version 2:* 8/71–8/74. *Version 3:* 5/66–7/71.

Objectives: To train enlisted personnel to install, operate, and maintain engineer equipment used in missile systems.

Instruction: *All Versions:* Lectures and practical exercises in the installation, operation, and maintenance of engineer equipment used in missile systems, including basic electricity and electrical test equipment; air-conditioning systems; internal-combustion engine systems and repair; heater operation; air, fuel, and electrical systems; air compressors; and elevator assembly. *Version 1:* Topics on elevator assembly eliminated.

Credit Recommendation: *Version 1:* In the vocational certificate category, 4 semester hours in refrigeration theory and basic electricity (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in refrigeration theory and basic electricity (6/75). *Version 2:* In the vocational certificate category, 5 semester hours in refrigeration theory and basic electricity (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in refrigeration theory and basic electricity (5/74). *Version 3:* In the vocational certificate category, 3 semester hours in refrigeration theory and basic electricity (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in refrigeration theory and basic electricity (5/74).

Related Occupation Codes: 62C.

AR-1730-0003

Utility Element Maintenance—Medical Unit Self-Contained Transportable (MUST)

Course Number: 662-F3.

Location: Engineer School, Ft. Belvoir, VA.

Length: 4 weeks (148 hours).

Exhibit Dates: 5/69–Present.

Objectives: To train enlisted personnel to repair the self-containing transportable air-conditioning units.

Instruction: Lectures and practical exercises in the maintenance of self-contained transportable air conditioning units. Course includes the fundamentals of refrigeration and gas turbine engines, and the diagnosis and repair of utility elements and output controls.

Credit Recommendation: In the vocational certificate category, 4 semester hours in refrigeration (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in refrigeration (5/74).

Related Occupation Codes: 52C; 51L; 52D; 621A.

AR-1730-0004

Engineer Missile Equipment Repair

Course Number: 633-62C30.

Location: Engineer School, Ft. Belvoir, VA.

Length: 5–7 weeks (190–232 hours).

Exhibit Dates: 6/66–Present.

Objectives: To train enlisted personnel to repair and maintain air conditioning units and high-pressure air compressors used in missile systems.

Instruction: Lectures and practical exercises in the repair and maintenance of air conditioning units and high-pressure air compressors used in missile systems, including operation of specific equipment, electrical system operation, hygrometer operation and repair, power station air systems, air conditioning fundamentals, and equipment assembly, dismantling, and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 2 semester hours in refrigeration equipment troubleshooting (5/74).

Related Occupation Codes: 62C.

AR-1732-0001

Fixed Power Plant Repair

Course Number: 622-F1.

Location: Engineer School, Ft. Belvoir, VA.

Length: 3 weeks (106 hours).

Exhibit Dates: 5/69–Present.

Objectives: To train enlisted personnel in on-site repairs and maintenance of diesel engine-driven fixed power plants.

Instruction: Lectures and practical exercises in power plant operation, engine controls and circuitry, control panel and switch gear, fuel oil centrifuge and oil purifier, coolant systems, and maintenance of facilities.

Credit Recommendation: Insufficient data for evaluation (3/74).

Related Occupation Codes: 52D; 52H.

AR-1732-0002

WATER SUPPLY

Course Number: 5-E-17.

Location: Engineer School, Ft. Belvoir, VA.

Length: 8 weeks (283–312 hours).

Exhibit Dates: 1/55–12/68.

Objectives: To train enlisted personnel in the analysis, treatment, and distribution of water, and the operation and operator maintenance of portable water purification or water supply equipment.

Instruction: Lectures and practical exercises in aspects of water supply, including introduction to water and water analysis; CBR and decontamination methods; principles, operation, and maintenance of pumps and engines, distillation equipment, and water purification equipment; and camouflage.

Credit Recommendation: In the vocational certificate category, 6 semester hours in theory of water purification (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in theory of water purification (5/74); in the upper-division baccalaureate category, 2 semester hours in theory of water purification (12/68).

AR-1732-0003

POWER GENERATION EQUIPMENT REPAIRER

Course Number: 662-52D10.

Location: Engineering School, Ft. Belvoir, VA.

Length: 8 weeks (244 hours).

Exhibit Dates: 3/79–Present.

Objectives: To provide enlisted personnel with skills required to maintain and repair electrical power generation equipment.

Instruction: Lectures and demonstrations in basic electricity, internal combustion engines, and associated auxilliary equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity, 3 in internal combustion engine maintenance and repair (9/79); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical fundamentals, 1 in introduction to internal combustion engines (9/79).

AR-1732-0004

POWER PACK SPECIALIST SKILL DEVELOPMENT BASE

(Power Pack Specialist Noncommissioned Officer (NCO) Candidate)

Course Number: 662-52C20-I.

Location: Engineer School, Ft. Belvoir, VA.

Length: 17 weeks (645–653 hours).

Exhibit Dates: 1/68–Present.

Objectives: To train selected enlisted personnel to perform as power pack supervisors and technicians.

Instruction: Lectures and practical exercises in the duties of a power pack supervisor and technician. Course includes gas turbine operation, air conditioning and refrigeration, combat operations, supply techniques, and methods of instruction.

Credit Recommendation: In the vocational certificate category, 2 semester hours in introduction to power technology (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to power technology (7/74); in the upper-division baccalaureate category, 3 semester hours in introduction to power technology (7/74).

Related Occupation Codes: 52B; 52C.

AR-1732-0005

PRECISE POWER GENERATION

Course Number: 5-R-351.2.

Location: Engineer School, Ft. Belvoir, VA.

Length: 4 weeks (148 hours).

Exhibit Dates: 4/65–12/68.

Objectives: To train enlisted personnel to install, operate, and maintain precise power-generating equipment.

Instruction: Lectures and practical exercises in the installation, operation, and maintenance of precise power-generating equipment, including electrical fundamentals, motor generators, gas turbine generators, paralleling and emergency power transfer, and testing and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical programs (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical programs (7/74).

AR-1732-0006

POWER PACK SPECIALIST

Course Number: *All Versions:* 662-52C20. *Version 3:* 5-R-351.3.

Location: Engineer School, Ft. Belvoir, VA.

Length: *Version 1:* 7 weeks (233 hours). *Version 2:* 7 weeks (233 hours). *Version 3:* 4–5 weeks (150–187 hours).

Exhibit Dates: *Version 1:* 5/75–1/79. *Version 2:* 6/72–4/75. *Version 3:* 11/64–5/72.

Objectives: To train enlisted personnel to operate and maintain gas turbine engines and multi-output package equipment.

Instruction: Lectures and practical exercises in operation and maintenance of gas turbine engines and multi-output package equipment. Course includes gasoline turbine repair, air conditioning and refrigeration principles, and power station maintenance and repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in power technology (power plant operation) (9/79); in the lower-division baccalaureate/associate degree category, 2 semester hours in power technology (9/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in power technology (7/74); in the upper-division baccalaureate category, 2 semester hours as an elective in power technology (7/74). *Version 3:* In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in power technology (7/74); in the upper-division baccalaureate category, 1 semester hour as an elective in power technology (7/74).

Related Occupation Codes: 52B; 52C; 62C.

AR-1733-0001

PARACHUTE RIGGER (PARACHUTE PACKING, MAINTENANCE AND AIRDROP)

(Parachute Packing, Maintenance and Airdrop)

(Parachute Packing, Maintenance and Air Delivery)

(Parachute Packing, Maintenance and Aerial Delivery)

Course Number: 4N-461A; 860-43E10; 860-43E20; 860-43E2P; 860-464.1; 10-H-4820; 10-H-461A; 10-H-464.1; 10-OE-30.

Location: Quartermaster School, Ft. Lee, VA.

Length: 11–14 weeks (385–495 hours).

Exhibit Dates: 10/55–Present.

Objectives: To train personnel to inspect, maintain, repair, and pack personnel and cargo parachutes and airdrop equipment; rig, load, and secure cargo in aircraft; prepare cargo for inflight ejection; and recover parachutes and airdrop equipment.

Instruction: Lectures and practical exercises in parachute packing subjects, parachute jumping, basic and advanced airdrop subjects, and maintenance subjects.

Credit Recommendation: In the vocational certificate category, 2 semester hours in parachute packing or packaging elective (8/74).

Related Occupation Codes: 43E.

AR-1734-0001

SHOE REPAIR

Course Number: 760-43L20; 10-R-462.2; 10-E-5.

Location: Quartermaster School, Ft. Lee, VA.

Length: 6 weeks (264 hours).

Exhibit Dates: 1/57–Present.

Objectives: To train enlisted personnel to inspect and repair leather footwear, to fit orthopedic devices, and to maintain and operate shoe repair equipment.

Instruction: Lectures and practical exercises in shoe repair, including shoe repair machinery; shoe repair methods; orthopedic work; shoe repair shop operations; shoe repair trailer operations; moral leadership and responsibilities; sole-stitching machine; maintenance and operation of the sole skiver; beveler; trimmer; welt roller and band saw; shoe-patching machine, shoe-finishing machine.

Credit Recommendation: In the vocational certificate category, 4 semester hours in leatherwork and shoemaking (6/74).

Related Occupation Codes: 43L.

AR-2201-0001

FIELD ARTILLERY MISSILES (FM-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED (USAMMCS)

Course Number: 1-FM-C42A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 12 weeks (423 hours).

Exhibit Dates: 4/73–4/75.

Objectives: To train selected personnel to supervise the maintenance of various missile systems.

Instruction: Unit personnel management; communication arts; technical aspects and functioning of missiles; maintenance and care of equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in engineering (1/74).

Related Occupation Codes: 27B; 27D; 27E; 27F; 27G; 27H; 21L; 21M; 21R; 21S; 21T; 21U; 21V; 27Z; 46L; 46N.

AR-2201-0002

COMBAT SURVEILLANCE AND TARGET ACQUISITION (SA-CMF) NCO BASIC

Course Number: 2-17-C40; 2-SA-C40A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 10-11 weeks (362-342 hours).
Exhibit Dates: 4/73-6/76.
Objectives: To train selected personnel in the basic principles and techniques of combat surveillance and target acquisition.
Instruction: Lectures and practical exercises in field artillery weapons as used in target acquisition; specialty study for countermortar/counterbattery; radar, sound, and flash ranging; field illumination; and artillery surveyor and meteorology observer crewmen.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (1/74).
Related Occupation Codes: 17A; 17B; 17C; 17D; 17E; 82C; 93E; 93F; 35D.

AR-2201-0003

AMEDD OFFICER BASIC (RESERVE COMPONENT)
(Army Medical Department Officer Basic (Reserve Component))

Course Number: 6-8-C20(RC).
Location: Academy of Health Sciences, Ft. Sam Houston, TX.
Length: 2 weeks (76 hours).
Exhibit Dates: 6/76-Present.
Objectives: To provide selected Medical Department commissioned officers of the reserve component with a general knowledge of basic skills which will enable them to adapt to and function within the military environment.
Instruction: Conferences, demonstrations, lectures, and practical exercises dealing with familiarization with the various aspects of the Army Medical Department, including the Health and Environment Division, Health Care Administration, and the Military Science Division.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (10/76).

AR-2201-0004

ARMOR NONCOMMISSIONED OFFICER (NCO) CANDIDATE (11E)

Course Number: 020-11E40-I.
Location: Armor School, Ft. Knox, KY.
Length: 12 weeks (593 hours).
Exhibit Dates: 4/68-Present.
Objectives: To prepare enlisted personnel to be armor crewmen, tank drivers, tank gunners, and tank commanders and to be capable of performing supervisory duties.
Instruction: Lectures and practical exercises in automotive maintenance; communications; weapons; armor, cavalry, artillery, and engineering operations; military leadership; first aid; and map reading.
Credit Recommendation: In the vocational certificate category, 2 semester hours in automotive shop or communications (2/74).

AR-2201-0005

WARRANT OFFICER ADVANCED (SIGNAL) BY CORRESPONDENCE

Course Number: E41.
Location: Institute for Professional Development, Ft. Eustis, VA.
Length: Maximum 208 weeks (Ft. Eustis, VA hours).
Exhibit Dates: 11/79-Present.
Objectives: To provide the student with basic knowledge of computer-related equipment and number systems, and radio wave transmission.
Instruction: This course gives instruction in the basic fundamentals of computers, including functional elements, binary counting and number systems, and punched card equipment. A second part of the course relates to basic principles of radio wave propagation and antenna fundamentals. Course includes proctored end-of-course examination. Credit recommendation is based on successful performance on the examination.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics technology (5/79).

AR-2201-0006

ARMOR NONCOMMISSIONED OFFICER (NCO) CANDIDATE (11D)

Course Number: 250-11D40-I.
Location: Armor School, Ft. Knox, KY.
Length: 12 weeks (590 hours).
Exhibit Dates: 4/68-Present.
Objectives: To prepare armor intelligence specialists to be reconnaissance sergeants, reconnaissance vehicle commanders, liaison sergeants, scout squad leaders and section leaders.
Instruction: Lectures and practical exercises in automotive maintenance, communications, weapons, artillery operations, armored cavalry operations, and engineer operations.
Credit Recommendation: In the vocational certificate category, 2 semester hours in automotive shop or communications (2/74).
Related Occupation Codes: 11D.

AR-2201-0007

INFANTRY NONCOMMISSIONED OFFICER (NCO) CANDIDATE
(Infantry Operations and Intelligence Specialist Skill Development Base)

Course Number: 250-11F40-I.
Location: Infantry School, Ft. Benning, GA.
Length: 12 weeks (455-477 hours).
Exhibit Dates: 11/67-12/73.
Objectives: To prepare enlisted men to perform as leaders/supervisors in infantry operations and intelligence.
Instruction: Lectures and practical exercises in combined arms tactics, staff subjects, communications, material readiness, and weapons.
Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in advanced military (4/71).
Related Occupation Codes: 11B; 11F.

AR-2201-0008

SPECIAL AMMUNITION MAINTENANCE/NUCLEAR WEAPONS ELECTRONIC TECHNICIAN WARRANT OFFICER INTERMEDIATE

Course Number: 4-9-C30-J; 4E-261A; 4E-262A-A.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: 9 weeks (376 hours).
Exhibit Dates: 4/72-Present.
Objectives: To provide warrant officers with the knowledge and skills necessary to supervise technical operations performed on nuclear weapons.
Instruction: Lectures in military resource management, military organization, nuclear weapons management, applied electronics, weapon systems, and management of maintenance personnel.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics engineering, 3 in management (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics engineering, 3 in management (2/74).
Related Occupation Codes: 260A.

AR-2201-0009

AIR DEFENSE MISSILE REPAIR (23-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC
(Air Defense (AD-CMF) NCO Basic)

Course Number: 1-23-C40B; 1-AD-C40B.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: 8-9 weeks (260-274 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train enlisted personnel to perform as noncommissioned officers in air defense units.
Instruction: Lectures and practical experience in communication and human relations; personnel management; and maintenance and repair of Nike Hercules and Hawk missiles, launchers, test equipment, computers, and radars.
Credit Recommendation: In the vocational certificate category, 3 semester hours in personnel management (8/77).
Related Occupation Codes: 22L; 23N; 23U; 22K; 23Q; 23S; 23T; 24H; 24J; 24K; 46D.

AR-2201-0010

SPECIAL FORCES QUALIFICATION

Course Number: *Version 1:* 011-SQ15. *Version 2:* None.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 16 weeks (1375 hours).
Exhibit Dates: *Version 1:* 1/78-12/77; 1/78-Present.
Objectives: To prepare officers and enlisted personnel for volunteer duty in the Special Forces.
Instruction: Lectures in leadership, methods of instruction, land navigation, and airborne operations, and intensive training in one of five student selected specializations: radio operation, including wave propagation, basic electronic theory, magnetism, electronic countermeasures, and cryptography; engineering, including construction of barriers and obstacles, rigging, form design, concrete construction, bridging, construction materials, and explosives; weapons, including small arms, recoilless weapons, mortars, and handguns; armor unit supply, including principles of unit supply, vehicles and weapons maintenance, property accountability, and procedures for movement of military organizations; or medical, including surgery preparation procedures, anesthesiology, anatomy, microbiology, parasitology, urinalysis, reaction and phlebotomy, and hematology.
Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in orienteering; in the lower-division baccalaureate/associate degree category, 3 semester hours in military science for all students completing the course, 9 semester hours in communications or civil engineering for those students completing either one of these two specialties, and 12 semester hours in premedical curriculum for those students completing this specialty area. *Version 2:* In the vocational certificate category, 9 semester hours in premedical curriculum, communications, civil engineering, or electrical engineering (2/74); in the lower-division baccalaureate/associate degree category, 9 semester hours in premedical curriculum, communications, civil engineering, or electrical engineering (2/74); in the upper-division baccalaureate category, 3 semester hours in premedical curriculum, 3 in

communications, 3 in civil engineering, and 2 in electrical engineering (2/74).

Related Occupation Codes: 05B; 11B; 12A; 76Y; 91B; 11C; 12B.

AR-2201-0011

LANCE CADRE

Course Number: 2F-1190L; 043-15D40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 6 weeks (262 hours).

Exhibit Dates: 10/73–5/74.

Objectives: To provide commissioned officers or enlisted personnel with a working knowledge of the operations, maintenance, and employment of the Lance missile.

Instruction: Lectures on Lance guided missile system, maintenance management, Lance nuclear warhead section and tactical employment, methods of instruction, and signal security.

Credit Recommendation: In the vocational certificate category, 2 semester hours in maintenance management or electrical shop (2/74).

AR-2201-0012

AIR DEFENSE ARTILLERY (16-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC

(Air Defense (AD-CMF) Noncommissioned Officer (NCO) Basic)

Course Number: 0-16-C40; 1-AD-C40A.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8–12 weeks (294–480 hours).

Exhibit Dates: 9/72–7/76.

Objectives: To train enlisted personnel to perform as noncommissioned officers in an air defense missile unit.

Instruction: Lectures in leadership and management, air defense tactics and techniques; field exercises in air defense; and a choice of missile electronics control systems, Nike Hercules battery, Hawk missile system, or Chaparral/Vulcan air defense system.

Credit Recommendation: Credit is not recommended because of the specialized nature of the course (8/77).

Related Occupation Codes: 16B; 16C; 16D; 16E; 16F; 16H; 16J; 16K; 16P; 16R; 24B; 24D; 24E; 24F; 24G; 24M; 24N; 24P; 24Q; 24U; 25D; 25G; 25H; 25J; 25K; 31R; 00G.

AR-2201-0013

1. MANEUVER COMBAT ARMS—INFANTRY (11-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC
2. INFANTRY ARMOR (IA-CMF) NCO BASIC

Course Number: *Version 1:* 0-11-C40. *Version 2:* 0-IA-C40A.

Location: Infantry School, Ft. Benning, GA.

Length: *Version 1:* 8 weeks (326–368 hours). *Version 2:* 10–12 weeks (404–609 hours).

Exhibit Dates: *Version 1:* 11/75–Present. *Version 2:* 11/72–10/75.

Objectives: To provide enlisted personnel with the knowledge and skills necessary to perform as noncommissioned officers in infantry armor.

Instruction: Lectures and practical exercises in the fundamentals of infantry management, including personnel administration, human relations, effective writing and speaking, communications, maintenance management, physical conditioning, combat intelligence, and air and land military operations.

Credit Recommendation: *Version 1:* Credit is not recommended because of the military-specific nature of the course (11/77). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in physical education, 1 in sociology (2/74); in the upper-division baccalaureate category, 1 semester hour in physical education, 1 in sociology (2/74).

Related Occupation Codes: 11B; 11C; 11F; 11H.

AR-2201-0014

MILITARY ASSISTANCE ADVISOR SECTOR/UNIT

Course Number: None.

Location: Special Warfare School, Ft. Bragg, NC.

Length: *Version 1:* 5 weeks (172 hours). *Version 2:* 6 weeks (241 hours).

Exhibit Dates: *Version 1:* 9/67–12/68. *Version 2:* 2/66–8/67.

Objectives: To provide officers with the knowledge and skills necessary to serve as advisors in the Republic of Vietnam.

Instruction: Lectures in Vietnamese language; intelligence; psychological operations; advisory duties; tactics; and the political, social, and economic conditions in Vietnam.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, credit in Vietnamese language on the basis of institutional evaluation (12/68). *Version 2:* Credit is not recommended because of the military-specific nature of the course (12/68).

AR-2201-0015

MILITARY ASSISTANCE TRAINING ADVISOR CORPS/DIVISION

Course Number: None.

Location: Special Warfare School, Ft. Bragg, NC.

Length: 6 weeks (214–230 hours).

Exhibit Dates: 2/66–12/68.

Objectives: To provide officers with the knowledge and skills necessary to serve as advisors in the Republic of Vietnam.

Instruction: Lectures in the Vietnamese language; intelligence; psychological operations; advisory duties; tactics; and the political, social, and economic conditions in Vietnam.

Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese language on the basis of institutional evaluation (12/68).

AR-2201-0016

MILITARY ASSISTANCE TRAINING ADVISOR

Course Number: None.

Location: Special Warfare School, Ft. Bragg, NC.

Length: 6 weeks (188 hours).

Exhibit Dates: 6/64–12/68.

Objectives: To train officers and enlisted personnel to perform as military assistance training advisors in counterinsurgency operations.

Instruction: Lectures in the fundamentals of military assistance, including Vietnamese language and area study; counterinsurgency tactics and techniques; air ground operations; and technical weapons, demolitions, and communications.

Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese language on the basis of institutional evaluation (12/68).

AR-2201-0017

NUCLEAR WEAPONS MATERIEL MANAGEMENT OFFICER

(Special Ammunition Officer)

Course Number: 4E-75C; 4E-4517.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 6–8 weeks (217–288 hours).

Exhibit Dates: 6/72–Present.

Objectives: To provide noncommissioned officers with the knowledge and skills necessary to perform as supervisors and administrators in nuclear weapons assembly and maintenance operations.

Instruction: Lectures and practical exercises in the basic principles of nuclear weapons operations, including nuclear weapons fundamentals, weapon systems inspection and maintenance techniques, logistics, and nuclear weapons safety and related subjects.

Credit Recommendation: In the vocational certificate category, 3 semester hours in nuclear materials handling (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in nuclear materials handling (2/74).

AR-2201-0018

COUNTERBATTERY/COUNTERMORTAR RADAR CREWMEN SKILL DEVELOPMENT BASE

Course Number: 221-17B40-I.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 13 weeks (517 hours).

Exhibit Dates: 12/68–Present.

Objectives: To train enlisted personnel to perform as counterbattery/countermortar radar crewmen.

Instruction: Lectures and field exercises in the basic principles of countermortar and counterbattery radar crew operations, including electronic equipment installation and operation, basic electronics, communications, map reading, physical conditioning, and automotive equipment maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics engineering (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics engineering (2/74).

Related Occupation Codes: 17B.

AR-2201-0019

AMMUNITION (55-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED

(Ammunition (AM-CMF) Noncommissioned Officer (NCO) Advanced)

Course Number: *Version 1:* 655-C42. *Version 2:* 6-55-C42. *All Versions:* 6-AM-C42.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 5–7 weeks (198-237 hours). *Version 2:* 10–11 weeks (334–389 hours).

Exhibit Dates: *Version 1:* 6/78–Present. *Version 2:* 3/73–5/78.

Objectives: To train enlisted personnel to perform as noncommissioned officers in the tactical explosives ammunition field.

Instruction: *Version 1:* Lectures in military management and administration, the responsibilities of ammunition handling, control and transportation. *Version 2:* Lectures in military management and administration, the responsibilities of ammunition specialty noncommissioned officers, and a program of university courses or an individual research project in the management field.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in explosives handling (8/79); in the lower-division baccalaureate/associate degree category, 3 semester hours in management techniques and 1 in communications arts (8/79). *Version 2:* In the vocational certificate category, 3 semester hours in explosives handling, 3 in personnel management (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in explosives handling, 3 in personnel management (2/74); in the upper-division baccalaureate category, 3 semester hours in personnel management (2/74).
Related Occupation Codes: 55B; 55C; 55D; 55G; 55X; 35F.

AR-2201-0020

TACTICS AND TECHNIQUES, PHASE I

Course Number: 1000-1499.
Location: John F. Kennedy Center for Special Warfare, Ft. Bragg, NC.
Length: 4 weeks (156 hours).
Exhibit Dates: 7/66-12/68.
Objectives: To train enlisted personnel in military subjects related to the duties of the Special Forces.
Instruction: Lectures and practical exercises in teaching methods, map reading, land navigation, and the organization of reconnaissance and combat patrols.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0021

1. AMMUNITION MAINTENANCE
2. AMMUNITION RENOVATION

Course Number: *All Versions:* 645-55C20. *Version 2:* 9-R-412.1.
Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Ordnance School, Aberdeen Proving Ground, MD.
Length: *Version 1:* 9 weeks (290-293 hours). *Version 2:* 7-10 weeks (245-359 hours).
Exhibit Dates: *Version 1:* 5/73-Present. *Version 2:* 5/57-4/73.
Objectives: To train enlisted personnel in the maintenance, inspection, and classification of ammunition.
Instruction: Lectures and practical application of classification and identification techniques in small arms control; material handling; inspection, testing, planning, and operation of mortar, artillery, and rocket arms.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).
Related Occupation Codes: 55B; 55C.

AR-2201-0022

1. AMMUNITION STORAGE
2. AMMUNITION STORAGE AND OPERATION
3. AMMUNITION STORAGE
4. AMMUNITION STORAGE

Course Number: *Version 1:* 645-55B10; 645-55B20. *Version 2:* 645-55B20. *Version 3:* 9-R-411.1. *Version 4:* 9-R-411;1 9-E-36.
Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Missile and Munitions School, Redstone Arsenal, AL. *Version 3:* Ordnance School, Aberdeen Proving Ground, MD. *Version 4:* Ordnance School, Aberdeen Proving Ground, MD.
Length: *Version 1:* 5-8 weeks (145-260 hours). *Version 2:* 10-11 weeks (361-392 hours). *Version 3:* 10 weeks (359 hours). *Version 4:* 6 weeks (210-228 hours).
Exhibit Dates: *Version 1:* 2/74-Present. *Version 2:* 3/66-1/74. *Version 3:* 4/58-2/66. *Version 4:* 4/56-3/58.
Objectives: To provide enlisted personnel with knowledge of the receipt, storage, shipment, issue, safety, and security of ammunition components, military explosives, and chemical ammunition.
Instruction: Conferences and practical exercises in ammunition material, service procedures, storage, handling, movement, inspection, maintenance, and destruction.
Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in explosives handling (6/75). *Version 2:* In the vocational certificate category, 7 semester hours in explosives handling (2/74). *Version 3:* In the vocational certificate category, 6 semester hours in explosives handling (2/74). *Version 4:* In the vocational certificate category, 3 semester hours in explosives handling (2/74).
Related Occupation Codes: 55A; 55B.

AR-2201-0023

CAMOUFLAGE OFFICER
(Officers Camouflage)

Course Number: 4-N-9511; 5-O-9.
Location: Engineer School, Ft. Belvoir, VA.
Length: 2 weeks (76-77 hours).
Exhibit Dates: 12/53-Present.
Objectives: To train enlisted personnel in the techniques and methods of concealing personnel, materiel, and military installations.
Instruction: Lectures and practical experience in principles of camouflage; methods and materials; and concealment of individuals, weapons, and installations.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

AR-2201-0024

HEAVY MORTAR AND DAVY CROCKETT NCO

Course Number: 010-F1.
Location: Infantry School, Ft. Benning, GA.
Length: 6 weeks (255 hours).
Exhibit Dates: 8/65-2/69.
Objectives: To train enlisted personnel in the supervision and direction of heavy mortar firing in Davy Crockett units and infantry combat situations.
Instruction: Lectures and practical exercises in weaponry, tactics, operations, equipment, and communications.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0025

INFANTRY COUNTERFIRE SUPERVISION

Course Number: 7-OE-13.
Location: Infantry School, Ft. Benning, GA.
Length: 5 weeks (187 hours).
Exhibit Dates: 7/55-12/68.
Objectives: To train enlisted personnel and commissioned officers to control and supervise the training and tactical employment of an infantry counterfire platoon.
Instruction: Practical exercises in weapons, artillery, communications, map and aerial photograph reading, and combat intelligence.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0026

ORDNANCE TECHNICAL INTELLIGENCE

Course Number: 9-H-F2.
Location: Ordnance School, Aberdeen Proving Ground, MD.
Length: 13 weeks (455 hours).
Exhibit Dates: 2/57-12/68.
Objectives: To train commissioned officers, warrant officers, and enlisted personnel to collect, identify, and evaluate foreign ordnance material or relevant documents and to disseminate pertinent information.
Instruction: Conferences and practical exercises in weapons, tanks and armored vehicles, technical intelligence training methods, map reading, and field problems.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0027

CAMOUFLAGE COURSE, ENLISTED

Course Number: 790-51E20; 5-R-514.1; 5-E-26.
Location: Engineer School, Ft. Belvoir, VA.
Length: 5 weeks (164-184 hours).
Exhibit Dates: 4/56-Present.
Objectives: To train enlisted personnel in the methods and techniques of concealing personnel, equipment, and military installations during combat situations.
Instruction: Lectures and practical exercises in principles of camouflage, material methods, and concealment of individuals, weaponry, and installations.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

AR-2201-0028

VISUAL TRACKER COURSE

Course Number: 2E-F32; 011-F4.
Location: Military Police School, Ft. Gordon, GA.
Length: 7 weeks (397 hours).
Exhibit Dates: 10/70-Present.
Objectives: To train officers in the techniques of tracking personnel through varied terrain.
Instruction: Practical experience in scouting, long-range reconnaissance, individual management, and signal communication.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).
Related Occupation Codes: 11B; 11F; 11D.

AR-2201-0029

CHEMICAL (54-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED
(Chemical (CL-CMF) Noncommissioned Officer (NCO) Advanced)

Course Number: 4-54-C42; 4-CL-C42.
Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD; Chemical School, Ft. McClellan, AL.
Length: *Version 1:* 10 weeks (336-349 hours). *Version 2:* 11 weeks (358 hours).
Exhibit Dates: *Version 1:* 8/75-Present. *Version 2:* 3/73-7/75.
Objectives: To provide enlisted personnel with a basic understanding of nuclear, chemical and biological defense, and to qualify them as master sergeants.
Instruction: *All Versions:* Lectures on Army management practices and concepts,

including logistical and maintenance management; chemical, biological, and nuclear warfare; and radiological defense. *Version 1:* Includes human relations training, supervision methods and chemical and nuclear detection procedures.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radiological safety, 2 in human relations, and 1 in supervision of training (1/78). *Version 2:* Credit is not recommended because of the military speicifc nature of the course (2/74).

Related Occupation Codes: 54B; 54C; 54D; 54E; 54F; 92D.

AR-2201-0030

Smoke and Flame Specialist NCO Basic

Course Number: 030-54C40-EC.

Location: Chemical School, Ft. McClellan, AL.

Length: 10 weeks (357 hours).

Exhibit Dates: 6/71–12/72.

Objectives: To train selected enlisted personnel as smoke and flame specialists.

Instruction: Lectures and practical exercises in biological, chemical, nuclear, and radiological defense operations; detection and identification of agents; effects of nuclear weapons; fallout prediction; and flame and fuels firing of high explosive anti-tank weapons and grenades.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).

Related Occupation Codes: 54B.

AR-2201-0031

Chemical Basic Noncommissioned Officer (NCO)

(Decontamination Specialist Noncommissioned Officer (NCO) Basic)

Course Number: 4-CL-C40; 030-54B40-EC.

Location: Chemical School, Ft. McClellan, AL.

Length: 10–12 weeks (357–438 hours).

Exhibit Dates: 6/71–Present.

Objectives: To train selected enlisted personnel to supervise chemical operations.

Instruction: Lectures and practical exercises in biological, chemical, nuclear and radiological defense; fallout prediction; contamination plotting; chemical munitions; material maintenance, including flame and flame-servicing equipment, and use of detection kits.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (1/74).

AR-2201-0032

Recruiting, WAC Enlisted

Course Number: 12-R-075.7C.

Location: Adjutant General's School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (112–121 hours).

Exhibit Dates: 2/57–12/68.

Objectives: To train enlisted personnel of the Women's Army Corps in the principles and techniques of recruiting for WAC members.

Instruction: Lectures and practical exercises in enlistment prerequisites, recruiting techniques, public speaking, interviewing techniques, and radio and television techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in public relations or communications (2/74).

AR-2201-0033

Davy Crockett Training

Course Number: None.

Location: Armor School, Ft. Knox, KY.

Length: 3 weeks (124 hours).

Exhibit Dates: 12/61–12/68.

Objectives: To train heavy-weapons infantrymen as section leaders for the Davy Crockett weapons system.

Instruction: Conferences and practical exercises in driving vehicles of the Davy Crockett system, operation and maintenance of radio equipment, map reading, basic concepts of nuclear weapon employment, mechanical training, and firing procedures of the system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in automotive shop (2/74).

AR-2201-0034

Infantry Senior Sergeant Noncommissioned Officer (NCO) Advanced

Course Number: 010-11G50-EC.

Location: Infantry School, Ft. Benning, GA.

Length: 11 weeks (383 hours).

Exhibit Dates: 4/72–Present.

Objectives: To train noncommissioned officers as infantry senior sergeants.

Instruction: Conferences and practical exercises in combined-arms tactics, staff subjects, communications and electronics, unit and material readiness, weapons, leadership, and management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in management (2/74); in the upper-division baccalaureate category, 6 semester hours in advanced military (12/68).

Related Occupation Codes: 11B; 11C; 11F; 11G; 11H.

AR-2201-0035

Infantry Advanced Noncommissioned Officer (NCO)

Course Number: 7-E-19.

Location: Infantry School, Ft. Benning, GA.

Length: 16 weeks (607 hours).

Exhibit Dates: 7/55–12/68.

Objectives: To train enlisted personnel to control and supervise the training and tactical employment of a platoon of an infantry rifle or heavy-weapons company.

Instruction: Conferences and practical exercises in tactical weapons employment and firing, communications, general military subjects, and school brigade.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0036

Harbor Craft Operator

(Harbor Craft Boatswain)

Course Number: 062-61B30; 813-61B30; 813-562.2; 55-R-562.6; 55-E-26.

Location: Transportation School, Ft. Eustis, VA.

Length: 5–11 weeks (189–414 hours).

Exhibit Dates: 2/56–Present.

Objectives: To train enlisted personnel in the operation of harbor craft.

Instruction: Lectures and practical experience in watercraft equipment and ship's rigging; communications; and watercraft operation, including navigation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in cargo handling and water transportation (2/74).

Related Occupation Codes: 61B.

AR-2201-0037

Electronic Warfare (EW) Cryptologic Supervisor

(Advanced EW/Cryptologic Supervisor)

(USASA Senior Noncommissioned Officer)

Course Number: 230-F1.

Location: Security Agency School, Ft. Devens, MA.

Length: *Version 1:* 7–8 weeks (231 hours). *Version 2:* 9 weeks (300 hours).

Exhibit Dates: *Version 1:* 5/77–Present. *Version 2:* 10/60–3/77.

Objectives: To train senior noncommissioned officers to manage electronic warfare/cryptologic operations of the U.S. Army Security Agency.

Instruction: *Version 1:* Training in management and supervision techniques pertaining to military systems, military science, and intelligence and security techniques. *Version 2:* Lectures and practical exercises in general military subjects, signal communications, electronics, security, management control, effective speaking and listening, and combined arms.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77). *Version 2:* Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0038

Pathfinder

Course Number: 2E-F3; 011-F3.

Location: Infantry School, Ft. Benning, GA.

Length: 3–5 weeks (129–247 hours).

Exhibit Dates: 1/66–Present.

Objectives: To train officer and enlisted parachutists to provide navigational assistance to drop-zone aircraft and deploying troops.

Instruction: Lectures and practical exercises in the organization, mission, and training of pathfinder platoons; electronics; communications; and map reading.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0039

Armor Noncommissioned Officer (NCO)

(Armor Advanced Noncommissioned Officer (NCO))

Course Number: 17-R-131.6; 17-E-13; 17-R-133.6.

Location: Armor School, Ft. Knox, KY.

Length: 9–16 weeks (351–563 hours).

Exhibit Dates: 8/55–12/68.

Objectives: To train enlisted personnel to supervise sub-unit armored divisions.

Instruction: Practical exercises in auto mechanics, communications, personnel and equipment management, and weaponry.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0040

Airborne (Male and Female)
(Airborne Qualification)

Course Number: 2E-F1; 011-F1; 7-H-F7; 7-OE-6.
Location: Infantry School, Ft. Benning, GA.
Length: 3 weeks (107–112 hours).
Exhibit Dates: 2/55–Present.
Objectives: To train army personnel in the techniques of battlefield parachuting.
Instruction: Practical exercises in jump tower training, parachute landing falls, door exits, malfunctions, and physical training, including parachute jumps.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0041

Ranger

Course Number: 7-OE-15; 7-D-F4; 2E-F2; 011-F2.
Location: Infantry School, Ft. Benning, GA.
Length: 7–9 weeks (499–1052 hours).
Exhibit Dates: 7/54–Present.
Objectives: To develop leadership qualities in selected officers and enlisted men by providing training in self-discipline and obedience.
Instruction: Lectures and practical exercises in map reading and land navigation; tactical training in guerrilla operations; demolition; patrolling and leadership; intelligence, endurance, and confidence tests; and physical training.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in physical education (2/74).

AR-2201-0042

Marine Artillery Operations Chief

Course Number: 250-F5.
Location: Field Artillery School, Ft. Sill, OK.
Length: 13 weeks (472–480 hours).
Exhibit Dates: 8/73–Present.
Objectives: To train noncommissioned officers to supervise field artillery operations.
Instruction: Lectures and practical exercises in gunnery, target acquisition, tactics and combined arms, artillery meteorology, survey, fire support coordination, fire planning, and observed fire.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).

AR-2201-0043

Information and Audio Visual (IV-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 4-IV-C42.
Location: Signal School, Ft. Monmouth, NJ.
Length: 10 weeks (343 hours).
Exhibit Dates: 10/72–Present.
Objectives: To provide enlisted personnel with advanced training in the principles, techniques, and methods of audio-visual communication.
Instruction: Lectures in general military subjects; administrative and management practices; combat service support operations; field training exercises; and television and pictorial policies, procedures, and equipments.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).
Related Occupation Codes: 26T; 41H; 84B; 84C; 84E; 84F; 84G.

AR-2201-0044

Field Illumination Crewman, Noncommissioned Officer (NCO) Candidate
(Field Illumination Crewman, Skill Development Base)

Course Number: 030-17E40-I.
Location: Field Artillery School, Ft. Sill, OK.
Length: 9–12 weeks (378–463 hours).
Exhibit Dates: 2/69–Present.
Objectives: To train enlisted personnel to perform as illumination crew supervisors.
Instruction: Lectures and practical exercises in weapons handling, tactics, target acquisition, communications, electronics, searchlight operations, gunnery techniques, and leadership training.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).
Related Occupation Codes: 13A; 17E.

AR-2201-0045

Light and Heavy Weapons Infantryman

Course Number: None.
Location: Special Warfare Center, Ft. Bragg, NC.
Length: 8 weeks (304 hours).
Exhibit Dates: 6/64–12/68.
Objectives: To provide enlisted personnel with the knowledge and skills necessary to operate U.S. and foreign army light and heavy weapons.
Instruction: Lectures and practical exercises in the use of hand guns, rifles, carbines, shotguns, submachine and machine guns, anti-tank weapons, and mortars and grenades.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0046

Infantry Noncommissioned Officer (NCO) Basic

Course Number: None.
Location: Infantry School, Ft. Benning, GA.
Length: 10–12 weeks (407–612 hours).
Exhibit Dates: 6/72–Present.
Objectives: To train enlisted personnel to perform as noncommissioned officers in infantry operations and intelligence.
Instruction: Lectures, demonstrations, and practical exercises in effective writing and speaking, map reading, radio communication procedures, marksmanship, small unit tactical operations, intelligence and logistical operations, and field fortifications and camouflage.
Credit Recommendation: In the upper-division baccalaureate category, 9 semester hours in basic military science (2/74).
Related Occupation Codes: 11B; 11C; 11F; 11H.

AR-2201-0047

Civil-Military Operations

Course Number: 4N-2180; 500-F3.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 2 weeks (72 hours).
Exhibit Dates: 7/75–Present.
Objectives: To prepare officers and senior noncommissioned officers for civil-military operation staff duties.
Instruction: Lectures and practical exercises in resource management, civil affairs resources, psychological operations resources, and civil-military operations.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (1/76).

AR-2201-0048

Field Artillery Mechanic

Course Number: 041-13B30.
Location: Field Artillery School, Ft. Sill, OK.
Length: 5 weeks (182–227 hours).
Exhibit Dates: 11/70–8/77.
Objectives: To train enlisted personnel to perform mechanical maintenance on artillery weapons.
Instruction: Lectures and practical exercises in equipment maintenance, supply procedures, maintenance management systems, basic electronics, and cannon artillery fundamentals.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).
Related Occupation Codes: 13A; 13B.

AR-2201-0049

Infantry Operations and Intelligence Specialist Noncommissioned Officer (NCO) Advanced

Course Number: 250-11F50-EC.
Location: Infantry School, Ft. Benning, GA.
Length: 13 weeks (426 hours).
Exhibit Dates: 4/72–Present.
Objectives: To train noncommissioned officers as infantry operations and intelligence specialists.
Instruction: Lectures and practical exercises in basic infantry and intelligence operations, including combat supply and logistics; radio communications procedures; maintenance management; weapons training; chemical operations; fortifications; map reading; effective speaking; leadership training; and infantry, armor, mechanized artillery, and airborne tactical operations.
Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in military science (12/68).
Related Occupation Codes: 11B; 11C; 11F; 11H.

AR-2201-0050

Chemical Officer

Course Number: 4K-7314.
Location: Ordnance and Chemical School, Aberdeen Proving Ground, MD.
Length: 8 weeks (251 hours).
Exhibit Dates: 1/76–Present.
Objectives: To provide the chemical officer with training in NBC operations.
Instruction: Lectures and practical exercise on the technical characteristics of chemical and biological agents; chemical and biological defense; chemical weapons employment, nuclear warfare and rediological defense, NBC material, and smoke and flame operations.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in radiological safety (1/78).

AR-2201-0051

USARADCOM CBR Officer Course

Course Number: 2E-F7.
Location: Chemical School, Ft. McClellan, AL.
Length: 3 weeks (119 hours).
Exhibit Dates: 4/69–Present.
Objectives: To provide commissioned officers and warrant officers with a working knowledge of the defensive aspects of chemical, biological, and radiological warfare operations.
Instruction: Conferences and practical exercises in chemical, biological, and radiological plans, training, and operations; technical aspects of chemical, biological, and radiological operations; nuclear warfare; and radiological defense.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).

AR-2201-0052

Officer Candidate (Reserve Components)
(Infantry Officer Candidate (Reserve Components))
(Infantry Officer Candidate (Reserve Component))
(Infantry Army Reserve Officer Candidate)

Course Number: 2-7-F2; 7-N-F2; 7-N-F13; 7-E-24.
Location: Infantry School, Ft. Benning, GA.
Length: 9 weeks (326–443 hours).
Exhibit Dates: 1/57–Present.
Objectives: To train National Guard and Army Reserve junior officers as infantry platoon leaders.
Instruction: Lectures and practical exercises in arms tactics, including offensive and defensive operations; patrolling; military leadership; map and airphoto reading; physical training; drill and command; tactical communications; maintenance management; and individual, special purpose, and crew served weapons.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in military science (12/68).

AR-2201-0053

Special Forces Jumpmaster

Course Number: 2E-F37; 011-F7.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 2 weeks (89 hours).
Exhibit Dates: 3/73–Present.
Objectives: To qualify experienced parachutists as jumpmasters.
Instruction: Lectures and practical demonstrations in the duties and responsibilities of parachute jumpmasters, including aircraft exit techniques and safety measures; jump commands and signals; use of various parachute and aerial delivery containers; and personnel, parachute, and aircraft inspection.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

AR-2201-0054

Special Assignment (SP-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 8-SP-C42.
Location: Quartermaster School, Ft. Lee, VA.
Length: 7 weeks (252 hours).
Exhibit Dates: 8/72–Present.
Objectives: To provide senior noncommissioned officers with a basic understanding of general quartermaster subjects and supervisory procedures and skills.
Instruction: Lectures and practical exercises in logistical combat support; principles of leadership, maintenance management, communication techniques, and airdrop procedures.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).
Related Occupation Codes: 43E.

AR-2201-0055

Ammunition (55-CMF) Noncommissioned Officer (NCO) Basic
(Ammunition (AM-CMF) Noncommissioned Offier (NCO) Basic)

Course Number: 6-55-C40; 6-AM-C40.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: 7–10 weeks (260–328 hours).
Exhibit Dates: 2/72–Present.
Objectives: To train enlisted personnel in the handling, maintenance, and disposal of ammunition and explosives.
Instruction: Conferences and practical exercises in management, special weapons operations, ammunition maintenance, explosives disposal.
Credit Recommendation: In the vocational certificate category, 3 semester hours in demolitions or explosives disposal (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills (6/75).
Related Occupation Codes: 35F; 55B; 55C; 55D; 55G; 55X.

AR-2201-0056

Ammunition Inspector
(Military Ammunition Inspector)

Course Number: 645-55X30; 645-55X40.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: 7–12 weeks (233–420 hours).
Exhibit Dates: 2/71–Present.
Objectives: To train enlisted personnel to inspect ammunition.
Instruction: Conferences and practical exercises in ammunition material; rocket and guided missile inspection and maintenance; storage, handling, and transportation of ammunition; surveillance and maintenance of ammunition; and demilitarization and destruction of ammunition.
Credit Recommendation: In the vocational certificate category, 3 semester hours in explosives handling (6/75).
Related Occupation Codes: 55B; 55C; 55D; 55G; 55X; 55Z.

AR-2201-0057

Air Defense Artillery (16-CMF) Noncommissioned Officer (NCO) Advanced
(Air Defense (AD-CMF) NCO Advanced)

Course Number: 0-16-C42; 1-AD-C42A.
Location: Air Defense School, Ft. Bliss, TX.
Length: 10–12 weeks (361–425 hours).
Exhibit Dates: 2/73–Present.
Objectives: To provide enlisted personnel with a working knowledge of the duties of senior noncommissioned officers in air defense management.
Instruction: Lectures on leadership and management; air defense tactics; weapons; military operations; communication skills.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (2/74).
Related Occupation Codes: 16B; 16C; 16D; 16E; 16F; 16H; 16J; 16K; 16P; 16R; 24C; 24D; 24E; 24F; 24G; 24M; 24N; 24P; 24Q; 24U; 25D; 25G; 25H; 25J; 25K; 00G.

AR-2201-0058

Army Medical Service Officer Orientation
(Army Medical Service Officer Basic)

Course Number: 8-A-C20A; 8-A-C1A; 8-O-31.
Location: Medical Field Service School, Ft. Sam Houston, TX.
Length: 5–7 weeks (144–240 hours).
Exhibit Dates: 6/55–12/68.
Objectives: To provide newly commissioned medical officers with training in the fundamentals of Medical Service Corps organization and administration.
Instruction: Lectures in the fundamentals of Medical Service Corps organization and administration, including supply administration, personnel management, martial law, dental service organization, field medical service organization, field medicine and surgery, nursing service, veterinary service, and neuropsychiatric casualties management.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/74).

AR-2201-0059

Air Defense Command and Control Systems Operator
(Air Defense Command, Control, and Coordination Systems Operator)
(Air Defense Fire Distribution Systems Controller)

Course Number: 221-16K20; 221-17H20; 221-186.1; 44-R-186.1.
Location: Air Defense School, Ft. Bliss, TX.
Length: 3–8 weeks (96–293 hours).
Exhibit Dates: 7/62–Present.
Objectives: To train enlisted personnel to operate and maintain specialized missile control consoles, monitors, and coordination systems.
Instruction: Lectures and practical exercises in missile electronics and control, air defense operations, field command control and coordination system operation and maintenance, and CONUS command control and coordination systems operation and maintenance.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (8/74).
Related Occupation Codes: 16H; 16K.

AR-2201-0060

Special Forces Military Free Fall Jumpmaster
(Special Forces Military Free Fall Parachutist/Military Free Fall Jumpmaster)

Course Number: *Version 1:* 2E-F56; 011-F11. *Version 2:* 2E-F48; 011-F11.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: *Version 1:* 2 weeks (92 hours). *Version 2:* 4–8 weeks (172–374 hours).
Exhibit Dates: *Version 1:* 5/79–Present. *Version 2:* 6/73–4/79.

Objectives: To qualify personnel as military free fall parachutists and military free fall jumpmasters.

Instruction: Lectures and practical exercises in military free fall parachutist training and military free fall jumpmaster training.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (8/77).

Related Occupation Codes: 11B; 11C; 12B; 76Y; 91B; 05B.

AR-2201-0061

Field Artillery Operations and Intelligence Noncommissioned Officer (NCO)
(Field Artillery Operations and Intelligence Assistant)

Course Number: 250-F1; 6-R-F37; 6-R-152.6.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: 11-14 weeks (398-517 hours).

Exhibit Dates: 5/62-Present.

Objectives: To train enlisted personnel to perform as field artillery intelligence and operations assistants.

Instruction: Lectures and practical exercises in the functions of field artillery intelligence and operations assisting, including Army maintenance systems, radio communications, gunnery and fire direction, tactics and combined arms, artillery survey, meteorology, and artillery transport.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (5/74).

Related Occupation Codes: 13E; 13B; 13D; 13Z.

AR-2201-0062

Regular Army Armor Officer Basic
(Armor Officer Basic (RA))

Course Number: 2-17-C20(RA); 17-A-C20A.

Location: Armor School, Ft. Knox, KY.

Length: 6-9 weeks (245-349 hours).

Exhibit Dates: 10/63-Present.

Objectives: To train newly commissioned armor officers in basic armor subjects and procedures.

Instruction: Lectures and practical exercises in basic armor subjects and procedures, including automotive maintenance, maintenance management, and recovery and vehicle operations; armor tactics; chemical, biological, and radiological operations; communications equipment, theory, and procedures; map and air-photo reading; special warfare; medical service; arms and gunnery; night training; and administrative and military leadership procedures.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military science at institutions which regularly offer such credit (12/68).

AR-2201-0063

Chaparral/Vulcan Officer Qualification
(Chaparral/Vulcan Officer and Noncommissioned Officer (NCO) Qualification)
(Chaparrel/Vulcan Noncommissioned Officer (NCO) Qualification)

Course Number: 2E-14B; 2E-1174; 2F-F8; 121-F17.

Location: Air Defense School, Ft. Bliss, TX.

Length: 5-8 weeks (171-294 hours).

Exhibit Dates: 7/68-Present.

Objectives: To provide training in Chaparral/Vulcan air defense system characteristics, capabilities, limitations, and air defense tactics, with emphasis on battery or battalion operations.

Instruction: Lectures and practical exercises in the organization, maintenance, systems control, and test and firing procedures of the Vulcan and Chaparral air defense systems.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (3/75).

AR-2201-0064

Warrant Officer Orientation

Course Number: WO-F1.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: 2-3 weeks (69-114 hours).

Exhibit Dates: 7/67-6/75.

Objectives: To train warrant officers in social and military customs and in officer responsibilities.

Instruction: Lectures and practical exercises in leadership; problem solving; financial and personnel management; military law; social customs; writing; artillery transport; maintenance management; communications; and tactics.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (5/74).

AR-2201-0065

Women's Army Corps Noncommissioned Officer (NCO) Leadership Course

Course Number: 510-F3.

Location: Women's Army Corps School, Ft. McClellan, AL.

Length: 4 weeks (139-151 hours).

Exhibit Dates: 8/67-Present.

Objectives: To train enlisted personnel to be unit noncommissioned officers.

Instruction: Lectures in unit administration, intelligence and security, land navigation, supply, methods of instruction, leadership, and personnel management.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (5/74).

AR-2201-0066

Tactical Training

Course Number: Not available.

Location: Security Agency School, Ft. Devens, MA.

Length: 2 weeks (106 hours).

Exhibit Dates: 11/66-12/68.

Objectives: To provide personnel with training in infantry weapons and small-unit tactics.

Instruction: Lectures and practical exercises in tactical training, including infantry weapons and small-unit tactics.

Credit Recommendation: Insufficient data for evaluation (5/74).

AR-2201-0067

USARADCOM Chemical, Biological, and Radiological Noncommissioned Officer (NCO)
(USARADCOM CBR NCO)

Course Number: 494-F2.

Location: Chemical School, Ft. McClellan, AL.

Length: 4 weeks (126-128 hours).

Exhibit Dates: 1/65-Present.

Objectives: To provide enlisted personnel with training in chemical, biological, and radiological operations.

Instruction: Lectures and practical exercises in the CBR plans, training and operations, supply and maintenance management procedures, and technical aspects of chemical, biological, and radiological operations.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-2201-0068

Chemical Staff Specialist

Course Number: 494-54E20; 3-R-534.1; 3-E-1.

Location: Chemical School, Ft. McClellan, AL; Ordnance School, Aberdeen Proving Ground, MD.

Length: 7-12 weeks (275-420 hours).

Exhibit Dates: 4/54-Present.

Objectives: To train enlisted personnel as specialists in chemical, biological and radiological operations.

Instruction: Lectures and practical exercises in technical aspects of chemical, biological, and radiological operations, including defensive operations, materiel and weapons, basic science and mathematics, biological agents, biological detection and defense, meteorology, field behavior of chemical agents, radiac instrumentation, field impregnation, map reading and interpretation, communications, intelligence, and supply and maintenance management procedures.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (5/74).

Related Occupation Codes: 54E.

AR-2201-0069

WAC Officer Orientation/Officer Candidate

Course Number: 7-35-C21; 7-35-F1.

Location: WAC School, Ft. McClellan, AL.

Length: 11 weeks (331-334 hours).

Exhibit Dates: 11/73-Present.

Objectives: To give newly commissioned Women's Army Corps officers basic orientation training.

Instruction: Lectures and practical exercises on general military subjects, including drill and command, tactics, land navigation, officer indoctrination, DoD organization, intelligence and security, operations and training, unit operations, leadership development, supply management, Army administration, resource and personnel management, and command and staff functions.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (5/74).

AR-2201-0070

Field Artillery Missile Noncommissioned Officer (NCO) Advanced
(Field Artillery Missile (FM-CMF) NCO Advanced)

Course Number: 1-FM-C42B.

Location: Field Artillery School, Ft. Sill, OK.

Length: 10-12 weeks (326-441 hours).

Exhibit Dates: 8/72-Present.

Objectives: To train missile and rocket crewmen, fire direction assistants, and electronics materiel specialists to supervise field artillery missile units.

Instruction: Lectures and practical exercises in the supervision of field artillery missile units, including leadership training, map reading, maintenance procedures, aerial navigation, combat operations, weapons and warfare, artillery fundamentals and organization, gunnery, rocket and missile equipment and operations, analysis of various components and systems, imagery interpretation, and fire planning and fire support coordination.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (5/74).

Related Occupation Codes: 15B; 15D; 15E; 15F; 15J; 21G.

AR-2201-0071

Field Artillery Cannon (FA-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 0-13-C40; 0-FA-C40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 12 weeks (404 hours).

Exhibit Dates: 3/73–6/76.

Objectives: To train noncommissioned officers to supervise field artillery operations.

Instruction: Lectures and practical exercises in the field artillery cannon duties of noncommissioned officers, including map reading and intelligence subjects; field artillery cannon operation and fire direction on 105-mm, 155-mm, 175-mm, and 8-inch weapons; ammunition; communications; and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in automotive shop or maintenance management (2/74).

Related Occupation Codes: 13A; 13B; 13E.

AR-2201-0072

Engineer Equipment Repair Specialist Candidate

Course Number: 612-62B30-I.

Location: Engineer School, Ft. Belvoir, VA.

Length: 12 weeks (486 hours).

Exhibit Dates: 9/69–Present.

Objectives: To train engineer equipment repairmen to perform as senior technicians.

Instruction: Lectures and practical exercises in engineer equipment repair, including map reading and land navigation, combat support, warfare tactics, leadership, and maintenance management and shop operation.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 62B.

AR-2201-0073

Service and Renovation (SR-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 7-SR-C42.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8–9 weeks (92–144 hours).

Exhibit Dates: 7/73–Present.

Objectives: To qualify enlisted personnel as noncommissioned officers in advanced service and renovation.

Instruction: Lectures and practical exercises on advanced service and renovation, including logistical combat support, leadership, maintenance management, communication techniques, operation and maintenance of fixed and mobile laundry equipment, operation and maintenance of field bath and delousing equipment, Army mortuary affairs program, identification of the dead, battlefield collection and evacuation, cemetery operation, and company and battalion administrative procedures.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 57E; 57F; 57G.

AR-2201-0074

Service and Renovation (SR-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 7-SR-C40.

Location: Quartermaster School, Ft. Lee, VA.

Length: 9-12 weeks (311-421 hours).

Exhibit Dates: 4/73–Present.

Objectives: To qualify enlisted personnel as noncommissioned officers in basic service and renovation.

Instruction: Lectures and practical exercises in basic service and renovation, including leadership, logistical combat support, machine sewing, communication techniques, shoe repair methods and supervision, supervision of mobile laundry operations, battlefield search and recovery operations, current death and concurrent return program, hand tools and material handling equipment, minor repair of buildings, roadways and grounds, and application of learned skills and knowledges.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 43J; 43K; 43L; 57E; 57F.

AR-2201-0075

Signal Officer Basic (Reserve Component)

Course Number: 4-11-C25.

Location: Signal School, Ft. Gordon, GA.

Length: 4 weeks (196 hours).

Exhibit Dates: 12/76–Present.

Objectives: To provide newly commissioned officers with the knowledge and skills necessary to perform the duties of a platoon leader.

Instruction: Lectures and demonstrations in tactical systems oriented to combat usefulness; utilizing knowledge gained in simulated situations pertaining to telecommunications.

Credit Recommendation: In the upper-division baccalaureate category, credit in radio, wire communications, and telegraph systems on the basis of institutional evaluation (4/77).

AR-2201-0076

Cable Splicer Noncommissioned Officer (NCO) Basic

Course Number: 621-36E40-EC.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 14 weeks (539 hours).

Exhibit Dates: 5/71–Present.

Objectives: To train enlisted personnel to supervise cable-splicing operations.

Instruction: Lectures on cable splicing and command leadership. Topics include command tactics, personnel and records management, troubleshooting, record keeping, and general military subject matter.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 36E; 36C.

AR-2201-0077

Chemical Operations Apprentice (Chemical (Entry))

Course Number: 030-54A10; 3-R-530.0.

Location: Chemical Corps School, Ft. McCellan, AL.

Length: 7–9 weeks (225–324 hours).

Exhibit Dates: 6/57–Present.

Objectives: To train enlisted personnel to be chemical operations apprentices.

Instruction: Lectures and practical exercises in management and leadership, unit and staff operations, chemical and biological defense, nuclear warfare and radiological defense, and maintenance and materiel management.

Credit Recommendation: Credit is not recommended because of the military specific nature os the course (5/74).

Related Occupation Codes: 54A; 54B; 54C; 54D.

AR-2201-0078

Tactical Communications Chief, Skill Development Base

Course Number: 101-31G40-I.

Location: Field Artillery School, Ft. Sill, OK.

Length: 14 weeks (505 hours).

Exhibit Dates: 8/69–11/78.

Objectives: To train field radio mechanics as tactical communications chiefs.

Instruction: Lectures and practical exercises on the duties of tactical communications chiefs, including wire communications; FM radio equipment and systems; radio telephone procedures and security; standard B-frequency-modulated radio equipment; amplitude-modulated radio equipment and radioteletypewriter procedures; message center procedures and cryptography; applied communications; tactical subjects and map reading; automatic data processing equipment; and countermortar and ground surveillance radar equipment.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 31B; 31G.

AR-2201-0079

WAC Unit Commander

Course Number: 7A-F35.

Location: WAC School, Ft. McClellan, AL.

Length: 2 weeks (65 hours).

Exhibit Dates: 11/73–Present.

Objectives: To train female officers to handle the administrative responsibilities of a unit.

Instruction: Lectures on the duties of unit commanders and administrators. Course includes military justice, military resource management, personnel management, leadership techniques, and guidance and performance counseling.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (5/74).

AR-2201-0080

Associate Air Defense Artillery Battery Officer

Course Number: 44-A-C3A; 44-O-2A.

Location: Air Defense School, Ft. Bliss, TX; Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 14–17 weeks (520–616 hours).

Exhibit Dates: 3/55–12/68.

Objectives: To train officers in air defense artillery battery operational procedures.

Instruction: Lectures and practical exercises in air defense artillery battery operational procedures, including leadership, basic electricity, communications techniques, specialized antiaircraft systems, nuclear weapons employment, air defense tactics, motors and generators, automatic weapons and gunnery, and staff procedures.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

AR-2201-0081

Army Air Defense Command Post Controller

Course Number: 44-D-F34.

Location: Air Defense School, Ft. Bliss, TX.

Length: 3 weeks (133 hours).

Exhibit Dates: 8/61–12/68.

Objectives: To train enlisted personnel and commissioned officers in the capabilities, limitations and operation of a specific command post.

Instruction: Lectures and practical exercises in the operation of a specific command post. Course includes data flow, communications, message composition, binary-to-decimal conversion, use of grid systems, computing facilities, radar data processing equipment, weapons monitor control, countermeasures employment, and specialized component application.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

AR-2201-0082

1. Air Defense Artillery Officer Basic
   (Air Defense Officer Basic)
   (Air Defense Officer Orientation)
2. Air Defense Artillery Officer Basic
   (Antiaircraft Artillery (AAA) Officer Basic)

Course Number: *Version 1:* 2-44-C20; 44-A-C20. *Version 2:* 44-A-C1A; 44-O-A.

Location: *All Versions:* Air Defense School, Ft. Bliss, TX. *Version 2:* Artillery and Guided Missile School, Ft. Bliss, TX.

Length: *Version 1:* 8–12 weeks (289–470 hours). *Version 2:* 16 weeks (572–579 hours).

Exhibit Dates: *Version 1:* 2/60–Present. *Version 2:* 9/56–1/60.

Objectives: To train commissioned officers to perform as air defense artillery officers.

Instruction: *All Versions:* Lectures and practical exercises in the basics of air defense artillery. *Version 1:* Topics include air defense systems, command and staff functioning, weapons familiarization, and supervisory and leadership preparation. *Version 2:* Topics include motors and generators, electronics, map reading, communications, gunnery, skysweeper, air defense tactics, and rifle marksmanship. Technical subject matter is handled in a cursory manner.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (12/68). *Version 2:* In the vocational certificate category, 1 semester hour in basic electrical laboratory (6/74); in the upper-division baccalaureate category, credit in advanced military at institutions which regularly offer such credit (12/68).

AR-2201-0083

Radio Operator Noncommissioned Officer (NCO) Basic

Course Number: 201-05B40-EC.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 9 weeks (349 hours).

Exhibit Dates: 3/71–Present.

Objectives: To train enlisted personnel to serve as noncommissioned officer radio operators.

Instruction: Lectures and practical exercises in radio operator duties. Topics include command leadership, command tactics, radio/wire integration systems, and supervisory communications and duties.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military at institutions which regularly offer such credit (12/68).

Related Occupation Codes: 05B; 31Z; 05C.

AR-2201-0084

Field Artillery Missile Officer Basic

Course Number: 6-O-B.

Location: Artillery and Guided Missile School, Ft. Sill, OK.

Length: 15 weeks (560 hours).

Exhibit Dates: 8/56–12/60.

Objectives: To train newly commissioned officers to supervise field artillery operations, and to handle the duties of guidance-platoon leaders, firing-platoon leaders, and ammunition train commanders of specific missile units.

Instruction: Lectures and field exercises in the duties of field artillery missile officers. Topics include tactical arms, communication and electronics, gunnery, and motors. Course does not include information in electronic solid-state devices and materials.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity, 1 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (6/74); in the upper-division baccalaureate category, credit in advanced military at institutions which regularly offer such credit (12/68).

AR-2201-0085

Infantry Mortar Platoon

Course Number: 2E-11B/C; 2E-1543; 010-F1.

Location: Infantry School, Ft. Benning, GA.

Length: 5–6 weeks (258–274 hours).

Exhibit Dates: 3/69–Present.

Objectives: To train officers and noncommissioned officers to command infantry heavy mortar units.

Instruction: Lectures and practical exercises in the supervision of a heavy mortar platoon in support of infantry combat operations, including tactical employment, methods of employment, tactical considerations, tactical training, communications, weapons, mechanical training and crew drill, forward observation procedures, fire direction center procedures, and heavy mortar platoon communications.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

Related Occupation Codes: 11C.

AR-2201-0086

Army Aviation Medical Officer Orientation

Course Number: 6A-F1; 1-A-F8.

Location: Aviation School, Ft. Rucker, AL.

Length: 3 weeks (90–105 hours).

Exhibit Dates: 5/64–Present.

Objectives: To familiarize aviation medical officers with Army aviation, the Army aviation medical program, and aeromedical evacuation.

Instruction: Lectures and practical exercises on Army aviation and the Army aviation medical program, including aviation medicine; tactics; fixed-wing and rotary-wing training; Army board for aviation accident research; airfield operations; control tower operations; basic fundamentals of flight; short-field techniques; instrument training; types of helicopters and fundamentals of helicopter aerodynamics.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

AR-2201-0087

Light Target Missile Controller

(Radio-Controlled Airplane Targets Operation)
(RCAT Operations)

Course Number: 4N-F2; 600-F4; 44-D-105.6; 44-D-0590; 44-D-209.7.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8–12 weeks (296–443 hours).

Exhibit Dates: 8/57–Present.

Objectives: To train personnel in launching, flying, and recovering radio-controlled airplane targets and combined operational support functions.

Instruction: Lectures and practical exercises in radio-controleled target operations, including orientation and system familiarization, MOM-33A & B field operations, combined operational subjects, description of the RCAT airframe and engine characteristics, RCAT control and aerodynamics, RPS-1 and C-2 remote control system characteristics, and RCAT launch and recovery methods.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

Related Occupation Codes: 00G.

AR-2201-0088

Hawk Officer

(Hawk Officer Qualification)

Course Number: 2F-F5; 44-A-F18.

Location: Air Defense School, Ft. Bliss, TX.

Length: 5–7 weeks (182–256 hours).

Exhibit Dates: 8/58–Present.

Objectives: To train officers in Hawk missile system operations.

Instruction: Lectures in Hawk missile system operations, including battery organization, basic electronics, Doppler and ranging principles, launcher, missile handling and preparation, radar, integrated system checks, cabling and communications, maintenance publications, maintenance system, equipment records procedures, generator operations, electronic intelligence and security, inspection techniques, Vulcan and Chaparral familiarization, and emergency operations.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

AR-2201-0089

Lacrosse Firing Battery

Course Number: 6-R-166.6; 6-R-F10.
Location: Artillery and Missile School, Ft. Sill, OK.
Length: 4 weeks (163-203 hours).
Exhibit Dates: 1/58-12/68.
Objectives: To train enlisted personnel to supervise and instruct subordinates in assembling, testing, adjusting, operating, and maintaining Lacrosse missile launchers and associated equipment.
Instruction: Lectures and practical exercises in supervision and instruction of assembling, testing, adjusting, operating, and maintaining Lacrosse missile launchers and associated equipment. Topics include artillery transport, gunnery, tactical and combined arms, target acquisition, and equipment associated with Lacrosse missile launchers.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

AR-2201-0090

Air Defense Artillery Field Grade Officer Refresher

(Air Defense Artillery Field Grade Officer Refresher)
(Senior Air Defense Artillery Officer)

Course Number: 2-44-C8; 44-A-F2.
Location: Air Defense School, Ft. Bliss, TX.
Length: 3 weeks (97-123 hours).
Exhibit Dates: 5/61-Present.
Objectives: To train field and general officers in the characteristics, capabilities, limitations, operations, and tactics of one or both of the major Army air defense missile systems, Nike Hercules, and Hawk.
Instruction: Lectures and practical exercises in the duties of air defense artillery officers, including Nike Hercules and Hawk defense systems familiarization, air defense operations and tactics, electronic warfare, Nike system computer, MCDR and record analysis, fire distribution systems, ARADCOM tactical operations, acquisition and tracking radars, battery control, and command maintenance management inspection.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

AR-2201-0091

Pershing Laying Specialist

Course Number: 043-15E30.
Location: Field Artillery School, Ft. Sill, OK.
Length: 2 weeks (71-74 hours).
Exhibit Dates: 7/70-6/76.
Objectives: To train enlisted personnel as specialists in azimuth laying techniques required in Pershing missile firing batteries.
Instruction: Lectures and practical exercises in the duties of a specialist in azimuth laying techniques in Pershing missile firing batteries.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).
Related Occupation Codes: 15E.

AR-2201-0092

Air Defense Missile Maintenance Technician and Maintenance Chief System Transition (Hawk)

(Air Defense Missile Maintenance Technician (Hawk) System Transition)

Course Number: 121-F22; 4F-F8.
Location: Missile and Munitions School, Redstone Arsenal, AL.
Length: 19 weeks (677-688 hours).
Exhibit Dates: 6/70-Present.
Objectives: To train warrant officers and enlisted personnel to maintain and provide logistical support of Hawk guided missile systems and associated equipment.
Instruction: Lectures and practical exercises in the maintenance of Hawk missile systems and associated equipment.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).
Related Occupation Codes: 223B; 223D; 251D.

AR-2201-0093

Sergeant Missile Crewman Noncommissioned Officer (NCO) Basic

Course Number: 043-15B40-EC.
Location: Field Artillery School, Ft. Sill, OK.
Length: 13 weeks (466 hours).
Exhibit Dates: 10/71-5/72.
Objectives: To train enlisted personnel to perform as sergeant missile crewmen.
Instruction: Lectures and practical exercises in the duties of sergeant missile crewmen. Course includes command and leadership techniques, missile azimuth orientation, launcher functions, warhead characteristics, and tactical subjects.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).
Related Occupation Codes: 15B; 15Z.

AR-2201-0094

Signal Officer Advanced (Reserve Component)

Course Number: 4-11-C26 (RC).
Location: Signal School, Ft. Gordon, GA.
Length: 12 weeks (407 hours).
Exhibit Dates: 1/77-Present.
Objectives: To prepare signal officers to command, administer, and train signal units in direct support of combat operations, to be responsible for installing, maintaining, and managing tactical communications, and to keep the commander advised on the installation and operation of communications electronics systems.
Instruction: Laboratory and lecture exercises and practical experience in the field on the theory and use of specific communications electronics equipment under simulated combat situations.
Credit Recommendation: In the vocational certificate category, 3 semester hours in communications principles on the basis of institutional evaluation (4/77).

AR-2201-0095

Nike Hercules Officer

Course Number: 2F-14C; 2F-1180A; 2F-F4; 44-A-F4.
Location: Air Defense School, Ft. Bliss, TX.
Length: 6-8 weeks (215-288 hours).
Exhibit Dates: 9/63-Present.
Objectives: To train commissioned officers in the essential materiel and tactics pertaining to the Nike Hercules system.
Instruction: Lectures and practical exercises in the essential materiel and tactics pertaining to the Nike Hercules system. Course includes training in the Nike Hercules system and in air defense tactics.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (2/75).

AR-2201-0096

Small Arms Repair

Course Number: 641-45B20 (Army); 641-2111 (USMC); 9-E-11.
Location: Ordnance School, Aberdeen Proving Ground, MD.
Length: 6-8 weeks (210-296 hours).
Exhibit Dates: 5/56-Present.
Objectives: To train enlisted personnel to maintain small arms and materiel.
Instruction: Lectures and practical exercises in small arms and materiel maintenance, including rifles, machine guns, submachine guns, mortars, rocket launchers, recoilless weapons, pistols, and grenade launchers.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).
Related Occupation Codes: 45B; 45Z.

AR-2201-0097

Amphibian Operator

Course Number: 062-61D20; 813-61D20.
Location: Transportation School, Ft. Eustis, VA.
Length: 6 weeks (219-232 hours).
Exhibit Dates: 8/66-Present.
Objectives: To train enlisted personnel to perform as amphibian operators.
Instruction: Lectures and practical exercises in the operation of amphibious craft, including familiarization with amphibians, map reading, land driving, water operations, cargo handling, loads and loading, piloting and nautical subjects, water safety, ship-to-shore operation, and counterinsurgency.
Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in marine programs (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in marine programs (7/74).
Related Occupation Codes: 61D.

AR-2201-0098

Associate Armor Company Officer

Course Number: 17-A-C3; 17-O-2.
Location: Armor School, Ft. Knox, KY.
Length: 15-16 weeks (580-612 hours).
Exhibit Dates: 8/54-12/68.
Objectives: To train commissioned officers in advanced armor operations.
Instruction: Lectures and practical exercises in advanced armor training and in the duties of a field-grade armor officer. Course includes automotive maintenance management; employment and organization of tank and armored rifle and infantry battalions; nuclear weapons; intelligence; armor administration and logistics; artillery and infantry operations, and military leadership and management.
Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in management for business or industrial areas (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in management for business or industrial areas (7/74); in the upper-division baccalaureate category, 3 semester hours in management for business or industrial areas (7/74).

AR-2201-0099

Ordnance Staff Officer Guided Missile and Special Weapons Logistics

Course Number: 9-A-F10.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 3 weeks (105 hours).

Exhibit Dates: 7/57-12/68.

Objectives: To train officers in weapons systems.

Instruction: Lectures and practical exercises in weapons systems, including guided missiles, atomic warfare, and special weapons systems.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

AR-2201-0100

Nike Hercules Officer Transition

Course Number: 44-A-F7.

Location: Air Defense School, Ft. Bliss, TX.

Length: 3-6 weeks (99-189 hours).

Exhibit Dates: 8/57-12/68.

Objectives: To provide artillery officers with transition training on the Nike Hercules system.

Instruction: Lectures and practical exercises in Nike Hercules transition training, including battery operations, tests, and inspections required to determine effectiveness of personnel and equipment; the Nike Hercules system; electronic warfare; air defense atomic tactics; air defense tactics; round and guidance functional system; reject procedures and depreparation; Nike Hercules CONUS; battery operation; residual radiation and target analysis ADT; AAA missile units in the field army; electronic countermeasures; and electronic counter-countermeasures.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

AR-2201-0101

Sergeant Officer

Course Number: 2F-1190S; 2F-1190D; 6-A-1190D.

Location: Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: 4-6 weeks (145-218 hours).

Exhibit Dates: 5/62-6/75.

Objectives: To train commissioned officers to perform as ballistic missile unit commanders.

Instruction: Lectures and practical exercises in the operation, maintenance, and employment of the Sergeant Missile System, including communication equipment and systems, electronic terminology and electrical safety, introduction to field artillery guided missiles, Lance and Sergeant introduction, Sergeant launcher and missile, organizational maintenance test station, nuclear warhead sections, gunnery subjects, tactical subjects, azimuth orientation system, firing set, operation of the Sergeant system, nuclear munitions, and Sergeant missile survey.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (6/74).

AR-2201-0102

Ammunition and Missile Maintenance Officer (Transition)

Course Number: 4F-4515T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 3 weeks (105 hours).

Exhibit Dates: 9/66-12/68.

Objectives: To train officers to be ammunition and missile maintenance officers.

Instruction: Lectures and practical exercises in munitions, data control, logistics, service support, missile systems maintenance and storage, inspection test and maintenance of rockets, mines and demolition devices, chemical and biological munitions, and maintenance management.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/74).

AR-2201-0103

Ordnance Field Grade Officer Refresher

Course Number: 9-O-14.

Location: Ordnance School, Aberdeen Proving Ground, MD.

Length: 4 weeks (146 hours).

Exhibit Dates: 1/57-12/68.

Objectives: To provide refresher training in the duties and responsibilities of field grade ordnance officers.

Instruction: Lectures and practical exercises in the duties of field grade ordnance officers, including military tactics, ordnance service fundamentals, leadership and management, management of organizational supply and maintenance logistics, management of field and depot supply and maintenance logistics, ordnance general supply, ordnance ammunition service, guided missile and special weapons logistics, and ordnance materiel.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-2201-0104

Electronic Warfare (EW) Cryptologic Special Identification Techniques Basic Technical
(Special Identification Techniques Supervisor)

Course Number: *Version 1:* 231-05D30. *Version 2:* 231-05D40.

Location: Security Agency School, Ft. Devens, MA.

Length: *Version 1:* 14 weeks (458 hours). *Version 2:* 10 weeks (319 hours).

Exhibit Dates: *Version 1:* 4/77-Present. *Version 2:* 1/63-3/77.

Objectives: To provide personnel with training in radio direction finding (RDF) techniques.

Instruction: *Version 1:* Instruction and practical exercises in map reading, maintenance management procedures, supervision of maintenance personnel, intelligence and security, operations pertaining to signal sources and military science principles. *Version 2:* Lectures and practical exercises in RDF techniques, including administrative and personnel management procedures, supervisory tasks, utilization of personnel and equipment, evaluation of productivity, supervision and control of mission, training of personnel, installation and maintenance of equipment, and installation and alignment of antennas.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77). *Version 2:* Credit is not recommended because of the military specific nature of the course (7/74).

Related Occupation Codes: 05D; 98Z.

AR-2201-0105

Dental Command and Staff

Course Number: 7M-F6.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 2 weeks (77-80 hours).

Exhibit Dates: 5/77-Present.

Objectives: To prepare Dental Corps officers to perform as commanders, staff officers, and administrators of dental activities units.

Instruction: Lectures, discussions, and practical exercises covering basic staff organization and doctrine of the Army, policies and procedures of Army dental service, implementation and supervision of Army dental facilities in the United States and abroad.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/77). course (6/77).

AR-2201-0106

Light and Medium Towed Field Artillery Mechanic

Course Number: 642-45F20-B.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 4 weeks (156 hours).

Exhibit Dates: 9/67-12/68.

Objectives: To train qualified enlisted personnel as light and medium towed field artillery mechanics.

Instruction: Lectures and practical exercises on the Army maintenance system, associated supply procedures, maintenance publications, and organizational maintenance of light and medium towed field artillery weapons, including artillery transport subjects; Army equipment record procedures; supply procedures; care and use of tools; care and maintenance of pneumatic tires; gunnery subjects; fundamentals of cannon artillery; sight test and adjustments; barrel and breech; and lubrication and inspection of specific weapons.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

Related Occupation Codes: 13A; 45F.

AR-2201-0107

Finance Officer Orientation—MBA
(Finance Officer Orientation)

Course Number: 14-A-F6; 14-O-20.

Location: Finance School, Ft. Benjamin Harrison, IN.

Length: 5-6 weeks (181-250 hours).

Exhibit Dates: 3/55-12/68.

Objectives: To provide USAR officers with orientation training in basic military subjects.

Instruction: Lectures and practical exercises in basic military subjects, including concealment and camouflage; hand-to-hand combat; military justice; map and photo reading; equipment, clothing and tent pitching; tactics; chemical, biological, and radiological warfare; anti-infiltration and anti-guerrilla training; carbine qualification; squad and platoon patrolling; marches and bivouac; hasty fortifications; guard duty; dismounted drill; and pistol qualification.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0108

Warrant Officer Advanced (USAMMCS)

Course Number: *Version 1:* 4-9-C32. *Version 2:* 4-9-C32K.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 8–17 weeks (237–575 hours).

Exhibit Dates: *Version 1:* 10/78–Present. *Version 2:* 11/75–9/78.

Objectives: To enable selected warrant officers to update their military educations in essential and selected military subjects, staff functions, procedures, organization, mission of the Army, and, in some cases, training in new equipment and new techniques to increase their level of technical proficiency.

Instruction: *Version 1:* Subject matter covers calibration management (252A0), munitions management (260A0), 411A0), missile management (214EV, 222BV, 223BV, 224BV, 271A0) missile electronics (214EV, 222BV, 223BV, 224BV, 271A0) and selected missile systems and ammunition handling. Course content and concentration varies depending upon MOS specialty. *Version 2:* Subject matter covers munitions management (26A, 411A), missile management (251B, 251D, 241F, 271A), conventional ammunition (411A), nuclear weapons (260A), missile electronics (251B, 251D, 241F, 271A), and selected missile systems. Course content and concentration varies depending on student's military occupational specialty (MOS) designation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic electronics for students completing missile electronics (214EV, 222BV, 223BV, 224BV, 270A0) 8/79; in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management for students completing calibration (252A0), munitions (260A0, 411A0), and missile management (214EV, 222BV, 223BV, 224BV, 271A0) (8/79). *Version 2:* In the vocational certificate category, 3 semester hours in basic electronics for students holding 241F, 251B, 251D, or 271A military occupational specialties (MOS) (9/77).

Related Occupation Codes: 214E; 214F; 241E; 241F; 251B; 251D; 260A; 271A; 411A; 251C; 214E; 241F; 241E; 214F; 251B; 222B; 251C; 251D; 223B; 260A; 271A; 411A.

AR-2201-0109

Associate Armor Officer Career

Course Number: 17-A-C23.

Location: Armor School, Ft. Knox, KY.

Length: 19 weeks (702–722 hours).

Exhibit Dates: 4/60–12/68.

Objectives: To train commissioned officers as armor officers.

Instruction: Lectures and practical exercises in the duties of armor officers, including maintenance management, driving and driving principles, general automotive subjects, armor employment, air and amphibious operations, nuclear weapons, intelligence, armor logistics, artillery and infantry operations, engineer subjects, chemical-biological warfare, communications equipment and procedures, map and airphoto reading, emergency planning, weapons, and military subjects.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-2201-0110

Field Artillery Officer Mobilization Advanced (Phases II and III)

Course Number: 2-6-C23.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 8 weeks (301 hours).

Exhibit Dates: 9/67–12/68.

Objectives: To provide artillery officers with advanced training in field artillery mobilization.

Instruction: Lectures and practical exercises in field artillery mobilization, including communications and electronics, gunnery, tactics and combined arms, target acquisition, artillery transport, and guided missile systems.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0111

Associate Air Defense Officer Career

Course Number: 2-44-C23; 44-A-C23.

Location: Air Defense School, Ft. Bliss, TX.

Length: 14–20 weeks (502–764 hours).

Exhibit Dates: 2/60–5/67.

Objectives: To train officers to be air defense artillery staff officers.

Instruction: Lectures and practical exercises in communications, nuclear weapons employment, air defense artillery maintenance management, Nike and Hawk missile systems, air defense operations and tactics, air defense organization, and combined arms team techniques and tactics.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-2201-0112

Air Defense Artillery Officer Mobilization Advanced (Phases IA, II, IV and VI)

(Air Defense Artillery Officer Mobilization Advanced (Phases II and II))

Course Number: 2-44-C23.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8 weeks (307 hours).

Exhibit Dates: 6/67–Present.

Objectives: To train officers to be command staff officers.

Instruction: Lectures and practical exercises in general staff procedures, Nike Hercules system, Hawk missile system, combined arms, air defense operations and tactics, nuclear weapons employment, and maintenance management.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0113

Special Assignments (SP-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 8-SP-C40.

Location: Quartermaster School, Ft. Lee, VA.

Length: 8 weeks (284 hours).

Exhibit Dates: 7/73–Present.

Objectives: To train selected enlisted personnel in the responsibilities of noncommissioned officers in certain special logistical assignments.

Instruction: Lectures and practical exercises in the duties of a noncommissioned officer in special logistical assignments. Course includes leadership and effective communication, logistic support of combat operations, maintenance of assigned equipment, parachute packaging, and airdrop procedures and techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership (6/75).

Related Occupation Codes: 43E.

AR-2201-0114

OV-1 Suppressive Fire

Course Number: 2B-F7.

Location: Aviation School, Ft. Rucker, AL.

Length: 3–4 weeks (95–140 hours).

Exhibit Dates: 6/65–12/68.

Objectives: To train OV-1 aviators in the techniques of air-to-ground machine gun and rocket firing.

Instruction: Lectures and practical exercises in the techniques of air-to-ground machine gun and rocket firing, including OV-1 suppressive fire training, gunnery safety, sight and armament equipment, theory of strafing and rockets, formation and flight team tactics, specific glide rocketry and strafing, specific glide live ordnance exercise, specific glide demonstration flight low-level delivery, formation flying, loading and fuzing, bore sighting, angle of attack, and patterns and techniques.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/68).

AR-2201-0115

M-22 Gunnery

(M-22 Gunnery Qualification)

Course Number: 2C-F9.

Location: Aviation School, Ft. Rucker, AL.

Length: 2–3 weeks (62–65 hours).

Exhibit Dates: 5/65–Present.

Objectives: To train commissioned officers in UH-1 helicopter aerial gunnery.

Instruction: Lectures and practical exercises in UH-1 helicopter aerial gunnery. Course includes specific armament and tactical subjects.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

Related Occupation Codes: 100B; 100C; 100D; 100E.

AR-2201-0116

Airborne Sensor Specialist

Course Number: 221-17L20; 221-26E20.

Location: Intelligence Center and School, Ft. Huachuca, AZ; Combat Surveillance and Electronic Warfare School, Ft. Huachuca, AZ; Combat Surveillance School, Ft. Huachuca, AZ.

Length: *Version 1:* 8 weeks (272 hours). *Version 2:* 7–13 weeks (272–476 hours).

Exhibit Dates: *Version 1:* 11/72–Present. *Version 2:* 1/67–10/72.

Objectives: To train enlisted personnel to operate and maintain an airborne sensing system.

Instruction: Lectures and practical exercises in the operation and maintenance of an airborne sensing system. Course includes visual reconnaissance techniques, infrared surveillance, radar surveillance, and photographic surveillance.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in aerial photography (6/79). *Version 2:* Credit is not recommended because of the limited technical nature of the course (7/74).

Related Occupation Codes: 17L.

AR-2201-0117

Advanced Chemical Noncommissioned Officer (NCO)
(Advanced Chemical Noncommissioned Officer (NCO) (Staff Specialist))
(Chemical Staff Supervision)

Course Number: 494-54E40; 3-R-534.6; 3-E-1.

Location: Chemical School, Ft. McClellan, AL; Chemical Corps School, Ft. McClellan, AL.

Length: 8 weeks (291–314 hours).

Exhibit Dates: 4/57–12/68.

Objectives: To train senior Chemical Corps noncommissioned officers in the administration of chemical, biological, and radiological (CBR) operations.

Instruction: Lectures and practical exercises in CBR operations, systems, and activities, including logistics; management; CBR plans, training, and operations; CBR weapons employment; combat arms; technical aspects of biological and chemical operations; nuclear warfare and radiological defense; CBR defense and materiel; and medical training and support.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

AR-2201-0118

Chemical Field Grade Officer Refresher

Course Number: 3-A-C8; 3-O-14.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 4 weeks (140–153 hours).

Exhibit Dates: 8/56–12/68.

Objectives: To provide refresher training in the duties appropriate to field grade Chemical Corps officers.

Instruction: Lectures and practical exercises in the duties of field grade Chemical Corps officers, including administration and management; intelligence; operations, plans, and training; supply and maintenance; biological, chemical, and radiological warfare; protection and materiel; and combat arms.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

Related Occupation Codes: 54B; 54C; 54D; 54E; 55E; 92D.

AR-2201-0119

Guided Missile Propellants and Explosives
(Guided Missile Propellants—Explosives Specialist)

Course Number: 821-55F20; 9-R-414.1; 9-E-46.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Ordnance School, Aberdeen Proving Ground, MD. *Version 3:* Ordnance Guided Missile School, Redstone Arsenal, AL.

Length: 6–8 weeks (215–280 hours).

Exhibit Dates: 5/55–12/68.

Objectives: To train enlisted personnel to supervise and perform receipt, maintenance, surveillance, storage and issue of guided missile propellants and explosives, and inspection and maintenance of rocket missile Class V items, tools, test equipment, and safety.

Instruction: Lectures and practical exercises on guided missile propellants and explosives, including introduction to rockets and missiles materiel; guided missile propellants; storage, handling, disposal, transportation, and surveillance of liquid propellants; inspection and maintenance; surface-to-air and surface-to-surface missile propellants; propellant storage site operations; and destruction.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (12/68).

Related Occupation Codes: 55F.

AR-2201-0120

Air Defense Missile Officer Basic
(SAM Officer Basic)

Course Number: 44-A-C1B; 44-O-B.

Location: Air Defense School, Ft. Bliss, TX; Antiaircraft Artillery and Guided Missile School, Ft. Bliss, TX.

Length: 12–16 weeks (452–573 hours).

Exhibit Dates: 9/55–6/60.

Objectives: To train officers in guided missile systems.

Instruction: Lectures and practical exercises in guided missile systems, including introduction to electronics, radar, missile systems operation, safety procedures, and map reading.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military at institutuions which regularly offer such credit (12/68).

AR-2201-0121

Aerial Surveillance Officer

Course Number: *Version 1:* 3-30-C20-35C. *Version 2:* 3A-9309. *Version 3:* 3A-9309. *Version 4:* 3A-9309.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2 :* Intelligence School, Ft. Huachuca, AZ. *Version 3 :* Intelligence School, Ft. Huachuca, AZ. *Version 4 :* Intelligence School, Ft. Holabird, MD.

Length: *Version 1:* 28 weeks (882 hours). *Version 2:* 18–19 weeks (550 hours). *Version 3:* 20 weeks (698 hours). *Version 4:* 18 weeks (620–630 hours).

Exhibit Dates: *Version 1:* 5/78–3/79. *Version 2:* 8/72–4/78. *Version 3:* 11/68–7/72. *Version 4:* 1/67–10/68.

Objectives: To provide selected officers with knowledge about tactical and aeriel surveillance.

Instruction: *All Versions:* Lectures and practical exercises in the duties of an aerial surveillance officer. Course includes map reading; aerial surveillance organization, operation, and planning; imagery interpretation of various structures and equipment; military and industrial studies of thermal and radar imagery; scale properties and metrics; and terrain analysis and mosaic preparations. *Version 1:* Course includes photo interpretation, photogrammetry, tactical surveillance, leadership, and management of technical services.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in administration/management, 3 in college mathematics, 3 in introduction to maps/air photographs, and additional credit based on placement tests (6/79); in the upper-division baccalaureate category, 3 semester hours in photogrammetry, 3 in leadership/management 3 in aerial photography (6/79). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in college mathematics to include algebra and trigonometry, 3 in introduction to maps and air photographs (6/79); in the upper-division baccalaureate category, 3 semester hours in air photo and image interpretation, 3 in photogrammetry (6/79). *Version 3:* In the lower-division baccalaureate/associate degree category, 7 semester hours in intelligence methods of imagery interpretation (6/74); in the upper-division baccalaureate category, 6 semester hours in intelligence methods of imagery interpretation (12/68). *Version 4:* In the lower-division baccalaureate/associate degree category, 6 semester hours in intelligence methods of imagery interpretation (6/74); in the upper-division baccalaureate category, 6 semester hours in intelligence methods of imagery interpretation (12/68).

AR-2201-0122

Army Aviation Command and Staff Officer
(Aviation Staff Officer)

Course Number: 1-A-F30; 1-A-2518.

Location: Aviation School, Ft. Rucker, AL.

Length: 3–8 weeks (105–292 hours).

Exhibit Dates: 11/59–12/68.

Objectives: To qualify commissioned officer aviators for aviation command and staff positions.

Instruction: Lectures and practical exercises in duties of aviation command and staff officers, including aviation programs; organization and functions of various units; control of tactical operations; aviation materiel (including maintenance, avionics and automatic data processing systems); special weapons; types of warfare; employment of aviation tactics in various situations; and training and movement of aviation companies.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in military science (7/74).

AR-2201-0123

1. Armor Officer Advanced
2. Armor Officer Advanced
3. Armor Officer Career

(Armor Officer Advanced)
(Armor/Infantry Officer Career)

Course Number: *All Versions:* 2-17-C22. *Version 3:* 17-A-C22; 17-A-C4; 17-O-3.

Location: Armor School, Ft. Knox, KY.

Length: *Version 1:* 26 weeks (846 hours). *Version 2:* 36–38 weeks (1158–1379 hours). *Version 3:* 35–37 weeks (1133–1325 hours).

Exhibit Dates: *Version 1:* 8/77–Present. *Version 2:* 11/66–7/77. *Version 3:* 9/54–10/66.

Objectives: To train officers to be armor officers at the command and staff levels.

Instruction: *All Versions:* Lectures and practical exercises in military forces, weapons, principle staff and support functions, leadership, effective communication, tactical and field communications, automotive preventive maintenance, maintenance management, armor logistics, artillery operations, amphibious operations, map and air photograph reading, psychological warfare, and congressional relations. *Version 1:* Instruction includes motivation and the systems approach to organization. *Version 2:* Instruction includes electives in history and geography, international relations, social sciences, and engineering.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in business organization and management, and 2 in organizational behavior. *Version 2:* In the vocational certificate category, 3 semester hours in business organization and management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management and additional credit in business organization and management on the basis of institutional evaluation (12/68). *Version 3:* In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-2201-0124

1. Infantry Officer Advanced
2. Infantry Officer Advanced
3. Infantry/Armor Officer Career
(Infantry Officer Career)
(Infantry Officer Advanced)

Course Number: *All Versions:* 2-7-C22. *Version 3:* 7-A-C22; 7-O-3.

Location: Infantry School, Ft. Benning, GA.

Length: *Version 1:* 26–36 weeks (858–1072 hours). *Version 2:* 36 weeks (1074–1243 hours). *Version 3:* 34–35 weeks (1122–1181 hours).

Exhibit Dates: *Version 1:* 8/72–Present. *Version 2:* 7/60–7/72. *Version 3:* 6/54–6/60.

Objectives: To train commissioned officers for command and staff duties at battalion through brigade levels in both divisional and nondivisional units.

Instruction: *All Versions:* Lectures and practical exercises in command and staff duties of infantry officers, including tactics; offensive and defensive operations; retrograde operations; internal defense and internal development operations; armored/air cavalry operations; airborne/airmobile operations; artillery operations; engineer operations; Air Force operations; nuclear, biological, and chemical weapons employment; intelligence and logistics; training management; automatic data processing; staff exercises and CPX; personnel. *Version 1:* Topics include electives program until September 1975. *Version 2:* Topics include communications/electronics, unit/materiel readiness, and weapons.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in business organization and management (7/74). *Version 2:* In the vocational certificate category, 4 semester hours in business organization and management (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management, and additional credit for the electives program on the basis of institutional evaluation (12/68). *Version 3:* In the upper-division baccalaureate category, 6 semester hours in business organization and management (12/68).

AR-2201-0126

Surface-to-Surface Missile System
Maintenance (Pershing)
Warrant Officer Advanced

Course Number: 4-9-C32; 4-9-C32-D; 4F-241F-B.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 9 weeks (317 hours).

Exhibit Dates: 2/72–10/76.

Objectives: To train warrant officers to manage missile operations and logistics.

Instruction: Lectures and practical exercises in the management of missile operations and logistics. Course includes leadership, civil affairs, speaking, writing, personnel management, military justice, security, data processing, financial management, budgeting, and various military operations.

Credit Recommendation: Credit is not recommended because of the military special nature of the course (8/74).

AR-2201-0127

Regular Army Air Defense Artillery
Officer Basic

Course Number: 2-44-C20(RA).

Location: Air Defense School, Ft. Bliss, TX.

Length: 6 weeks (239 hours).

Exhibit Dates: 5/67–12/68.

Objectives: To train newly commissioned officers to perform the duties of an air defense artillery officer.

Instruction: Lectures and practical exercises in the duties of an air defense artillery officer. Course includes general subjects and staff procedures; combined arms; nuclear weapons; communications; maintenance and supply procedures; air defense tactics; and the Nike Hercules system.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military at institutions which regularly offer such credit (12/68).

AR-2201-0128

Chemical Company Officer

Course Number: 3-A-C2; 3-O-1.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 13–25 weeks (483–905 hours).

Exhibit Dates: 1/55–12/68.

Objectives: To train commissioned officers in the duties of company grade Chemical Corps officers.

Instruction: Lectures and practical exercises in the duties of company grade Chemical Corps officers. Course includes personnel and administration procedures, logistics, management, military arts, military combat arms, biological warfare, chemical warfare, and radiological warfare.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military on the basis of institutional evaluation at institutions which regularly offer such credit (12/68).

AR-2201-0129

Artillery Officer Advanced

Course Number: 6-A-C4; 6-O-3.

Location: *Version 1:* Artillery and Guided Missile School, Ft. Sill, OK. *Version 2:* Air Defense School, Ft. Bliss, TX.

Length: 37–38 weeks (1271–1383 hours).

Exhibit Dates: 7/55–6/60.

Objectives: To train commissioned officers in the duties of field grade artillery officers.

Instruction: Lectures and practical exercises in the duties of field grade artillery officers. Course includes a study of tactics and combined arms, communications and electronics, gunnery, artillery observation, artillery equipment, and missile systems.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in business organization and management (12/68).

AR-2201-0130

Associate Armor Officer Advanced

Course Number: 17-A-C5; 17-O-4.

Location: Armor School, Ft. Knox, KY.

Length: 15–19 weeks (578–714 hours).

Exhibit Dates: 7/54–6/60.

Objectives: To train experienced officers in the duties of field grade armor officers and nuclear weapons employment officers.

Instruction: Lectures and practical exercises in the duties of field grade armor officers and nuclear weapons employment officers, including automotive general, maintenance management, armor employment, air operations, amphibious operations, nuclear weapons, intelligence, armor administration and logistics, artillery, infantry and engineer operations, nuclear weapons employment, communications equipment and procedure, tactical communication, field communication, map and air photo reading, methods of instruction, nonresident instruction and training assistance, preventive maintenance, small arms, materiel, tank gunnery, civil emergencies and affairs, psychological warfare, congressional relations, mutual security, medical training and support, training management, Army management, character guidance, and the Army information program.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-2201-0131

Associate Infantry Officer Career

Course Number: 7-A-C23.

Location: Infantry School, Ft. Benning, GA.

Length: 19 weeks (721 hours).

Exhibit Dates: 7/60–12/68.

Objectives: To train infantry officers to perform as company and battalion commanders.

Instruction: Lectures and practical exercises in the duties of a company and battalion commander. Course includes command and leadership training, communications, logistics, and a variety of military subjects.

Credit Recommendation: In the vocational certificate category, 1 semester hour in business organization and management (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in business organization and management (8/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AR-2201-0132

Ammunition Operations
(Ammunition Storage and Operations)
(Ammunition Records)

Course Number: 645-55B30; 551-76M20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4–15 weeks (129–526 hours).

Exhibit Dates: 3/66–Present.

Objectives: To train enlisted personnel to receive, store, ship, issue, and secure ammunition, rockets, guided missiles, ammunition components, military explosives and chemical ammunition.

Instruction: Lectures and practical exercises in the receipt, storage, shipment, and security of ammunition, rockets, guided missiles, ammunition components, military explosives, and chemical ammunition; and in dump layout, and types and missions of ammunition installations. Course includes numerous ammunition services and operations.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/75).

Related Occupation Codes: 55B.

AR-2201-0133

Air Defense Missile (23-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 1-23-C42.

Location: Air Defense School, Ft. Bliss, TX.

Length: 10 weeks (361-374 hours).

Exhibit Dates: 7/75-Present.

Objectives: Course provides selected enlisted personnel with knowledge of the duties required to perform in grade E7 in career management field 23.

Instruction: Conferences and practical exercises in tactics and general subjects in the Nike Hercules weapons system, the Improved Hawk weapons system, or on the Operations and Acquisition Radar specialty.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/77).

Related Occupation Codes: 24B; 24C; 24D; 24E; 24F; 24G; 24Q; 24U; 25D; 25G; 25H; 25J; 25K; 28M.

AR-2201-0134

Infantry Armor (IA-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 0-IA-C40B.

Location: Armor School, Ft. Knox, KY.

Length: 12 weeks (431-433 hours).

Exhibit Dates: *Version 1:* 1/76-Present. *Version 2:* 3/73-12/75.

Objectives: To train enlisted personnel in the duties of infantry armor NCOs (noncommissioned officers).

Instruction: *Version 1:* Demonstrations and practical exercises in the duties of infantry armor NCO's, including mapping, nuclear, biological and chemical report preparation and submission, and technical aspects of tank command. *Version 2:* Lectures and practical exercises in the duties of infantry armor NCOs. Course includes automotive subjects, command and staff procedures, communications and electronics, leadership and educational concerns, and weaponry.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (8/74).

AR-2201-0135

Associate Field Artillery Battery Officer

(Associate Field Artillery Missile Battery Officer)

Course Number: 6-A-C3; 6-O-2B.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 17-18 weeks (610-642 hours).

Exhibit Dates: 9/56-6/60.

Objectives: To train officers in the duties and responsibilities of mortar, gun, and Howitzer battery commanders.

Instruction: Lectures and practical exercises in artillery transport maintenance; communication and electronic systems of field artillery battalions (wire and radio); gunnery and fire direction; ammunition and fuzes; tactical employment; and target organization.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0136

Parachute Maintenance and Airdrop Officer

(Parachute Maintenance and Aerial Supply Officer)

Course Number: 8B-4820; 10-A-4820.

Location: Quartermaster School, Ft. Lee, VA.

Length: 6-7 weeks (210-262 hours).

Exhibit Dates: 1/65-6/74.

Objectives: To train officers to supervise packing, maintenance, rigging and related duties in airdrop units.

Instruction: Lectures and practical exercises in airdrop packing, associated maintenance, rigging, and related duties, including parachute packing, student parachute jumps, packing and rigging dangerous materials for airdrop, methods of airdrop, cargo parachute packing and release assemblies, recovery and evacuation of airdrop equipment, maintenance of airdrop materials, maintenance administration, organizational supply problems, and planning airdrop support of airborne assault operations.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (8/74).

AR-2201-0137

National Guard Infantry Officer Candidate

Course Number: 7-N-F2.

Location: Infantry School, Ft. Benning, GA.

Length: 8 weeks (353 hours).

Exhibit Dates: 2/54-12/57.

Objectives: To train National Guard personnel in the duties and responsibilities appropriate to platoon leaders of infantry rifle and weapon platoons.

Instruction: Weapons; leadership; map and aerial photograph reading; signal communication; mobility department; command and staff department.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in military science (12/68).

AR-2201-0138

Field Artillery National Guard Officer Candidate

Course Number: 6-E-34; 6-N-F2.

Location: Artillery and Guided Missile School, Ft. Sill, OK.

Length: 11 weeks (498 hours).

Exhibit Dates: 5/55-12/57.

Objectives: To train personnel to be second lieutenants capable of performing duties appropriate to their grade in field artillery units of the National Guard.

Instruction: Tactics and combined arms; communications; gunnery; materiel; motors; observation; OCS commander.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in military science (12/68).

AR-2201-0139

Associate Field Artillery Battery Officer

Course Number: 6-A-C3A; 6-O-2.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 16-17 weeks (581-618 hours).

Exhibit Dates: 3/56-12/68.

Objectives: To train junior grade officers to function as small unit commanders and officers.

Instruction: Lectures and practical exercises in mortar, gun, and Howitzer battery operations; gunnery; communications and electronics; target acquisition; equipment; command and staff procedures; tactics; and leadership principles.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0140

Senior Field Artillery Officer

Course Number: *Version 1:* 6-A-F6. *Version 2:* 6-O-8.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 3 weeks (101 hours). *Version 2:* 5 weeks (163 hours).

Exhibit Dates: *Version 1:* 12/58-12/68. *Version 2:* 3/57-11/58.

Objectives: To provide senior artillery officers with knowledge and understanding of field artillery organization, tactics, techniques, and equipment.

Instruction: Lectures and practical exercises in artillery transport; communication and electronics; artillery cannon, rocket missile, and ammunition materials; gunnery; and target acquisition.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0141

Military Government Advanced

Course Number: 19-0-17.

Location: Provost Marshal General School, Ft. Gordon, GA.

Length: 4 weeks (154 hours).

Exhibit Dates: 11/54-12/68.

Objectives: To provide a general knowledge and understanding of civil affairs and military government policy development and operations.

Instruction: Lectures and practical exercises in the sociological-political aspects of civil affairs/military government and the economics of military occupation and its relationship to U.S. foreign policy.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in military government (7/74).

AR-2201-0142

Field Artillery Field Grade Officer Refresher

Course Number: 6-O-14.

Location: Artillery and Guided Missile School, Ft. Sill, OK.

Length: 4 weeks (150 hours).

Exhibit Dates: 7/55-12/68.

Objectives: To provide refresher training for senior field artillery officers in field artillery general subjects.

Instruction: Lectures and practical exercises in tactics; command and staff functions; communications; atomic warfare; gunnery; target acquisition; and equipment.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0143

Field Artillery Transition Officer

Course Number: 6-O-22.

Location: Artillery and Guided Missile School, Ft. Sill, OK.

Length: 11 weeks (402 hours).

Exhibit Dates: 7/55-12/68.

Objectives: To porvide a general familiarization with field artillery gunnery, communications, and equipment.

Instruction: Lectures and practical exercises in tactics, map reading, command and staff functions, communication, gunnery, target acquisition, and equipment.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0144

Pershing Noncommissioned Officer (NCO)

Course Number: 043-15E40.

Location: Field Artillery School, Ft. Sill, OK.

Length: weeks (221–232 hours).

Exhibit Dates: 11/70–Present.

Objectives: To provide enlisted personnel with a knowledge of the Pershing missile system and the duties of Pershing crew supervisors.

Instruction: Lectures and practical exercises on the Pershing missile system; Pershing missile organization and employment, tactics, and operations.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/75).

Related Occupation Codes: 15E; 15Z.

AR-2201-0145

Marine Artillery Scout Observer

Course Number: 250-0846.

Location: Field Artillery School, Ft. Sill, OK.

Length: 4 weeks (155 hours).

Exhibit Dates: 3/75–Present.

Objectives: To qualify enlisted personnel in the technical aspects of planning, acquiring, and controling artillery fire.

Instruction: Lectures and practical exercises in communications and electronics; gunnery; map and aerial photograph reading; and the development of artillery fire support plans.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course ([illegible]/75).

AR-2201-0146

Drill Sergeant School

Course Number: None.

Location: Infantry School, Ft. Benning, GA; Army Training Centers, Continental U.S.

Length: 6 weeks (206 hours).

Exhibit Dates: 4/74–Present.

Objectives: To train selected noncommissioned officers and specialists in the fundamentals of recruit handling and individual training.

Instruction: Lectures and practical exercises in methods of training, leadership, physical fitness, drill, rifle marksmanship, and weapons and tactical techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in methods of instructions, 2 in interpersonal relations (6/75).

Related Occupation Codes: 00F.

AR-2201-0147

Tow Trainer

Course Number: 2E-F51; 012-F3.

Location: Infantry School, Ft. Benning, GA.

Length: 3 weeks (102 hours).

Exhibit Dates: 2/75–Present.

Objectives: To provide officers and noncommissioned officers with the expertise to conduct training on and effectively employ Tow antiarmor weapon system.

Instruction: Lectures and practical exercises in operational training with Tow and the tactical application of Tow, including instructor training and development of training program.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/75).

AR-2201-0148

Civil Affairs and Military Government Officer

Course Number: 41-I-F1; 41-O-7.

Location: Civil Affairs and Military Government School, Ft. Gordon, GA.

Length: 4 weeks (160–166 hours).

Exhibit Dates: 5/56–12/68.

Objectives: To provide selected officers with knowledge of the fundamentals of military government organization, policies, and operations.

Instruction: Conferences and practical exercises in history of military government, command and staff functions, field operations, and specialized military operations.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in military government (7/74).

AR-2201-0149

Chemical Officer Familiarization

Course Number: 3-A-C21.

Location: Chemical Corps School, Ft. McClellan, AL.

Length: 6 weeks (234 hours).

Exhibit Dates: 3/60–12/68.

Objectives: To provide orientation to the organization, functions, duties, and responsibilities of officers transferring to chemical officer assignments.

Instruction: Conferences and practical exercises in nuclear warfare; radiation physics; weapons effects; RADIAC instruments; radiological safety; chemical/biological protection and materiels; and medical training and support.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-2201-0150

Nuclear and Chemical Target Analysis

Course Number: 2-E-F15.

Location: Infantry School, Ft. Benning, GA.

Length: 4 weeks (159 hours).

Exhibit Dates: 4/70–Present.

Objectives: To qualify commissioned officers in nuclear and chemical target analysis.

Instruction: Lectures and practical exercises in effects of nuclear weapons to include thermal radiation and air blast; weapon employment to include damage probability and damage estimation; tactical applications; target analysis; chemical target analysis; and defense against biological attack.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0151

Nuclear and Chemical Target Analysis (NaC)

Course Number: 2E-F39.

Location: Engineer School, Ft. Belvoir, VA.

Length: 4 weeks (122 hours).

Exhibit Dates: 4/70–Present.

Objectives: To qualify commissioned officers in nuclear and chemical target analysis and procedures for employment of nuclear/chemical weapons.

Instruction: Lectures and practical exercises in effects of nuclear weapons including airblast, radiation effects, fallout prediction, employment, damage estimation, and target analysis; and chemical weapons topics, including weapons employment and target ground and air analysis.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0152

Field Artillery Officer Familiarization

Course Number: 6-A-C21.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 7–8 weeks (275–285 hours).

Exhibit Dates: 6/60–12/68.

Objectives: To provide field artillery officers familiarization in the organization, operational functions, duties and responsibilities of the field artillery.

Instruction: Lectures and practical exercises in artillery transport and maintenance; communication and electronics; gunnery of cannon and rocket; target acquisition and survey; and field artillery tactics.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0153

Nuclear Weapons Employment

Course Number: 2E-F17.

Location: Chemical School, Ft. McClellan, AL.

Length: 3 weeks (115 hours).

Exhibit Dates: 9/65–12/68.

Objectives: To qualify commissioned officers for duty as nuclear weapons employment officers.

Instruction: Lectures and practical exercises in the nuclear weapons family, blast effects, target response to blast, thermal radiation, initial nuclear radiation, comparison of effects, and nuclear weapons in air defense.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-2201-0154

Nuclear, Biological and Chemical (NBC) Weapons Target Analysis

Course Number: 2E-F34.

Location: Air Defense School, Ft. Bliss, TX.

Length: 4 weeks (155 hours).

Exhibit Dates: 12/69–Present.

Objectives: To qualify commissioned officers in chemical and biological weapons employment.

Instruction: Lectures and practical exercises in weapons target analysis to include radiation, airblast, fallout prediction, and effects; chemical and biological agents; troop safety; probability of damage; and concepts for employment of nuclear weapons.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0155

MILITARY INTELLIGENCE (MI-CMF) NONCOMMISSIONED OFFICER (NCO) ADVANCED (USAISC)

Course Number: 2-96-C42; 2-MI-C42.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 6–12 weeks (195–369 hours).

Exhibit Dates: 3/73–Present.

Objectives: To train selected noncommissioned officers in intelligence/administrative skills.

Instruction: Lectures and practical exercises in intelligence operations, administration, and army procedures and communications directed to military intelligence operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in survey of applied electronics, 3 in principles of administration, 3 in world areas studies (political science) (6/79).

Related Occupation Codes: 96B; 96C; 96D; 97B; 97C; 97D.

AR-2201-0156

FIELD ARTILLERY MISSILES (FM-CMF) NONCOMMISSIONED OFFICER (NCO) BASIC (USAFAS)

Course Number: 0-15-C40; 1-FM-C40B.

Location: Field Artillery School, Ft. Sill, OK.

Length: 10–12 weeks (372–399 hours).

Exhibit Dates: 1/74–6/76.

Objectives: To provide enlisted personnel with a knowledge of the duties required to perform as noncommissioned officers in the field artillery missile Career Management Field.

Instruction: Lectures and practical exercises in common Army subjects and field artillery missiles.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/75).

Related Occupation Codes: 15B; 15D; 15E; 15F; 15J; 21G.

AR-2201-0157

HEAVY MORTAR AND DAVY CROCKETT OFFICER

Course Number: 2E-1543.

Location: Infantry School, Ft. Benning, GA.

Length: 6 weeks (253 hours).

Exhibit Dates: 8/65–2/69.

Objectives: To train commissioned officers to serve as heavy mortar platoon leaders and Davy Crockett nuclear weapon section leaders.

Instruction: Lectures and practical exercises in nuclear weapons employment, offensive and defensive tactical operations; radio, telephone, and wire communications; crew served weapons gunnery, mechanical training and employment, and fire direction procedures.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0158

NUCLEAR WEAPONS EMPLOYMENT

Course Number: 2E-F15.

Location: Infantry School, Ft. Benning, GA.

Length: 3 weeks (121 hours).

Exhibit Dates: 7/66–3/70.

Objectives: To qualify commissioned officers for duty as nuclear weapons employment officers.

Instruction: Lectures and practical exercises in nuclear weapons systems, effects of nuclear weapons, fundamentals of employment, tactical application of nuclear weapons, and biological and chemical weapons.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-2201-0159

FIELD ARTILLERY OFFICER VIETNAM ORIENTATION

Course Number: 2E-F30.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 5 weeks (204–208 hours).

Exhibit Dates: 1/68–Present.

Objectives: To provide training for field artillery officers assigned to duty in Vietnam.

Instruction: Lectures and practical exercises in maintenance management of artillery transport; gunnery; tactical operations; target acquisition and location; and radio communications.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0160

SIGNAL OFFICER CANDIDATE

Course Number: 4-11-F1.

Location: Southeastern Signal School, Ft. Gordon, GA.

Length: 23 weeks (869 hours).

Exhibit Dates: 8/66–10/72.

Objectives: To train, develop, and commission highly selected enlisted personnel as second lieutenants in the Army Signal Corps.

Instruction: Lectures and practical exercises in radio communication systems to include FM/AM radio, VHF/UHF radio, radio relay equipment; wire communications to include wire and cable, teletypewriter and telegraph-telephone switching operations, telephone carrier systems circuit control, communication center operations, and communication security; and planning of larger unit communications system.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (7/74).

AR-2201-0161

SENIOR OFFICERS PREVENTIVE LOGISTICS

Course Number: 8A-F23.

Location: Armor School, Ft. Knox, KY.

Length: 2 weeks (73 hours).

Exhibit Dates: 8/75–Present.

Objectives: To prepare senior officers and Department of Defense civilians to perform command functions associated with logistics.

Instruction: Lectures, demonstrations, seminars and practical exercises in logistics including army supply and maintenance systems and materiel inspection.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in military science (2/80).

AR-2201-0162

SPECIAL FORCES OFFICER
(Special Forces Officer (Modified)

Course Number: 2E-F8; 33-G-F3.

Location: Institute for Military Assistance, Ft. Bragg, NC; Special Warfare School, Ft. Bragg, NC.

Length: 12–13 weeks (574–835 hours).

Exhibit Dates: *Version 1:* 8/75–Present. *Version 2:* 5/64–7/75.

Objectives: To provide students with a general knowledge of the latest doctrine and techniques of Special Forces operations.

Instruction: Lectures and practical exercises in development and employment of resistance forces; infiltration and exfiltration; U.S. unconventional warfare organization and capabilities; stability and psychological operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in physical education (2/80); in the upper-division baccalaureate category, 3 semester hours in military science and tactics (2/80). *Version 2:* Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0163

NUCLEAR WEAPONS EMPLOYMENT

Course Number: 2E-F12; 6-A-F19.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 3 weeks (105–120 hours).

Exhibit Dates: 8/64–12/68.

Objectives: To qualify commissioned officers for duty as nuclear weapons employment officers.

Instruction: Lectures and practical exercises in the effects of nuclear weapons, the fundamentals of employment, and tactical application of nuclear weapons employment.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-2201-0164

NUCLEAR WEAPONS EMPLOYMENT

Course Number: 2E-F16; 17-A-F19.

Location: Armor School, Ft. Knox, KY.

Length: 3 weeks (120–123 hours).

Exhibit Dates: 6/63–12/68.

Objectives: To qualify commissioned officers for duty as nuclear weapons employment officers.

Instruction: Lectures and practical exercises in the effects of nuclear weapons; the fundamentals of nuclear weapons employment and tactical applications; and the employment of chemical and biological weapons.

Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (7/74).

AR-2201-0165

ARMOR OFFICER ADVANCED - RESERVE COMPONENT

Course Number: 2-17-C26.

Location: Armor School, Ft. Knox, KY.

Length: 12 weeks (414–469 hours).

Exhibit Dates: 9/76–Present.

Objectives: To train reserve officers to be armor officer at the command and staff levels.

Instruction: Lectures and practical exercises in military forces, weapons, staff support functions, leadership, motivation, organizational behavior, effective communication, maintenance and logistics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (2/80); in the upper-division baccalaureate category, 1 semester hour in organizational behavior (2/80).

AR-2201-0166

Field Artillery Officer Candidate

Course Number: 2-6-F1; 6-N-F1; 6-E-19.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK; Artillery and Guided Missile School, Ft. Sill, OK.

Length: 23 weeks (780–1085 hours).

Exhibit Dates: 7/56–Present.

Objectives: To train selected personnel to perform duties in field artillery units and staffs.

Instruction: Lectures and practical exercises to include maintenance management, communications electronics, gunnery and tactics, command and staff, air-ground operations, target acquisition, drill and ceremonies, physical training, and leadership principles.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (7/74).

AR-2201-0167

Infantry Officer Candidate

Course Number: 2-7-F1; 7-N-F1; 7-E-14.

Location: Infantry School, Ft. Benning, GA.

Length: 22–23 weeks (830–1035 hours).

Exhibit Dates: 11/54–Present.

Objectives: To prepare selected personnel to become officers in the reserve components of the U.S. Army.

Instruction: Lectures and practical exercises in combined arms tactics, offensive and defensive; airborne/airmobile operations; amphibious operations; artillery operations; engineer operations; chemical, biological, and radiological operations; patrolling; personnel management; intelligence; logistics and operations; military leadership; effective oral and written communication; map and air photo reading; military justice; medical subjects; physical training; drill and command; army information program; communications/electronics; maintenance management; and army weaponry.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (7/74).

AR-2201-0168

Field Artillery Officer Candidate (Reserve Component)

Course Number: 2-6-F2; 2-N-F2.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 11 weeks (459–493 hours).

Exhibit Dates: 1/58–Present.

Objectives: To prepare personnel to qualify as second lieutenants in National Guard or Reserve field artilley units.

Instruction: Lectures and practical exercises in maintenance management, communication electronics, gunnery, tactics, map reading, military law, target acquisition, drill and ceremonies, physical training, and leadership.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in military science (7/74).

AR-2201-0170

Infantry Noncommissioned Officer (NCO) Candidate

Course Number: 010-11B40-I.

Location: Infantry School, Ft. Benning, GA.

Length: 12 weeks (580–656 hours).

Exhibit Dates: 7/67–Present.

Objectives: To train and qualify enlisted personnel to serve as noncommissioned officer squad leaders in the Infantry.

Instruction: Lectures and practical exercises in small unit technical offensive and defensive operations; airborne, artillery, engineer, chemical, and Air Force operations; leadership; map reading; communications; maintenance of vehicles; individual and crew-served weapons firing and employment.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in advanced military science (7/74).

Related Occupation Codes: 11B; 11C; 11H.

AR-2201-0171

Armor Officer Candidate

Course Number: 2-17-F1.

Location: Armor School, Ft. Knox, KY.

Length: 23 weeks (785–836 hours).

Exhibit Dates: 7/66–12/68.

Objectives: To train, qualify, and commission highly selected enlisted personnel or second lieutenants in the armor branch.

Instruction: Lectures, demonstrations, and practical exercises in armored cavalry tactical operations, artillery and engineer operations, tank and automotive maintenance, radio communication, map reading, methods of instruction, military justice, small arms, mortars, and anti-tank weapons.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (7/74).

AR-2201-0172

Air Defense Artillery Automatic Weapons Officer

Course Number: 2E-F18.

Location: Air Defense School, Ft. Bliss, TX.

Length: 4–6 weeks (150–227 hours).

Exhibit Dates: 3/66–Present.

Objectives: To provide officers with a working knowledge of air defense automatic weapons, tactics, techniques, and materiels.

Instruction: Lectures and practical exercises in characteristics and operation of the twin 40-mm gun and the self-propelled .50 machinegun; small arms maintenance and repair procedures, tactics, and operations.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0174

Field Artillery Noncommissioned Officer (NCO) Candidate

Course Number: 041-13B40-I.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 15 weeks (602 hours).

Exhibit Dates: 8/68–2/73.

Objectives: To train and qualify enlisted personnel to serve as noncommissioned officers in Field Artillery units.

Instruction: Lectures and practical exercises in artillery transport operation and maintenance, communication and electronics, gunnery, tactical operations, and map reading.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in advanced military science (7/74).

Related Occupation Codes: 13A; 13B; 13Z.

AR-2201-0175

Field Artillery Operations and Intelligence Assistant Skill Development Base

Course Number: 250-13E40-I.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 13 weeks (517 hours).

Exhibit Dates: 10/68–4/77.

Objectives: To qualify enlisted personnel to serve in supervisory positions as artillery operations and intelligence assistants.

Instruction: Lectures and practical exercises in artillery transportation, radio communication and electronics, basic gunnery, basic tactical operations, target acquisition and location, automotive maintenance, gun direction computers, and combat intelligence and operations.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

Related Occupation Codes: 13E; 13Z.

AR-2201-0176

Infantry Indirect Fire Crewman Noncommissioned Officer (NCO) Candidate

Course Number: 010-11C40-I.

Location: Infantry School, Ft. Benning, GA.

Length: 12 weeks (416 hours).

Exhibit Dates: 8/67–Present.

Objectives: To qualify enlisted personnel to become mortar squad and section leaders in the Infantry.

Instruction: Lectures and practical exercises in offensive and defensive combat operations; internal defense and development operations; airborne/airmobile operations; artillery operations; engineer operations; and chemical, biological, and air forces operations.

Credit Recommendation: *Version I:* Credit is not recommended because of the military specific nature of the course (7/74).

Related Occupation Codes: 11C.

AR-2201-0177

Chemical Officer Basic
(Chemical Officer Orientation)

Course Number: 5-3-C20; 3-A-C20; 3-A-C1; 3-O-A.

Location: Chemical School, Ft. McClellan, AL.

Length: 8–12 weeks (328–456 hours).

Exhibit Dates: 7/55–Present.

Objectives: To prepare newly commissioned chemical corps officers for first duty assignment.

Instruction: Lectures and practical exercises in personnel and administrative procedures, special warfare training, intelligence, physical training, smoke operations, weapons, and leadership; CBR plans, training, and operations; logistics and supply management; biological operations; chemical operations; nuclear warfare and radiological defense; CBR defense and materiel; and medical training and support.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0178

Honest John Rocket Crewman
Noncommissioned Officer (NCO)
Basic

Course Number: 042-15F40-EC.
Location: Field Artillery School, Ft. Sill, OK.
Length: 12 weeks (487 hours).
Exhibit Dates: 9/71-5/72.
Objectives: To provide selected personnel with general knowledge of the duties of an Honest John Rocket team crewman.
Instruction: Lectures and practical exercises in artillery transport operation, communications/electronics, Honest John warhead and rocket, tactics and combined arms, command and staff, nuclear employment, and leadership principles.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).
Related Occupation Codes: 15F; 15Z.

AR-2201-0179

Chemical Equipment Repair
Supervison

Course Number: 3-R-533.7; 3-E-14.
Location: Chemical Corps School, Ft. McClellan, AL.
Length: 3 weeks (107-120 hours).
Exhibit Dates: 6/56-12/68.
Objectives: To train enlisted personnel to supervise the inspection, maintenance, and repair of chemical equipment.
Instruction: Lectures and practical exercises in maintenance and repair of smoke generators, gas masks, and flame throwers; personnel management; maintenance of decontamination equipment; basic shop management; and supply procedures.
Credit Recommendation: Credit is not recommended because of the limited technical nature of the course (5/74).

AR-2201-0180

Powered Bridge Operator

Course Number: 250-12D20.
Location: Engineer School, Ft. Belvoir, VA.
Length: 4 weeks (153 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train personnel in the operation of the mobile assault bridge.
Instruction: Practical exercises and conferences to include units on powered bridge operations limited to specialized areas of maintenance and operation.
Credit Recommendation: In the vocational certificate category, 1 semester hour as a technical elective (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as a technical elective (7/74).
Related Occupation Codes: 12A; 12D.

AR-2201-0181

Maneuver Combat Arms—Infantry (11
CMF) Noncommissioned Officer
(NCO) Advanced
(Infantry Armor (IA-CMF) NCO Advanced)

Course Number: 0-111-C42; 0-IA-C42A.
Location: Infantry School, Ft. Benning, GA.
Length: 10-12 weeks (379-466 hours).
Exhibit Dates: 11/72-Present.
Objectives: To provide middle-grade enlisted personnel with sufficient knowledge to perform infantry armor military duties.
Instruction: Lectures and practical exercises to include tactical doctrine; fundamentals of combat in built-up areas; stability operations in insurgent areas; engineer operations; intelligence and logistics; general management; map and airphoto reading; military leadership; physical training and combatives; communications/electronics; crew served weapons; and personnel.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0182

Branch Immaterial Officer Candidate

Course Number: 2-7-F1.
Location: Infantry School, Ft. Benning, GA.
Length: 14 weeks (510-518 hours).
Exhibit Dates: 5/73-Present.
Objectives: To prepare selected personnel for branch officer basic course training.
Instruction: Lectures and practical exercises in combined arms tactics; general subjects, including personnel, intelligence, logistics, map and airphoto reading, physical training, and military leadership; communications/electronics; unit/materiel readiness; and weapons.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).

AR-2201-0183

Combat Surveillance and Target
Acquisition NCO Advanced
(Combat Surveillance and Target Acquisition (SA-CMF) NCO Advanced)
(Combat Surveillance and Target Acquisition NCO Advanced)

Course Number: 2-17-C42; 2-SA-C42; 221-17Z50-EC.
Location: Field Artillery School, Ft. Sill, OK.
Length: 7-12 weeks (211-431 hours).
Exhibit Dates: 8/72-Present.
Objectives: To provide enlisted personnel with knowledge to perform in combat surveillance and target aquisition units.
Instruction: Lectures and practical exercises in field artillery subjects and general Army subjects, including military correspondence; map reading; military operations; nuclear weapons effects; unit tactics; leadership principles; military law; military security; and personnel management.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).
Related Occupation Codes: 17B; 17C; 17D; 17E; 17K; 17L; 17Z; 82C; 93F.

AR-2201-0184

Infantry Armor (IA-CMF)
Noncommissioned Officer (NCO)
Advanced

Course Number: 0-IA-C42B.
Location: Armor School, Ft. Knox, KY.
Length: 10-12 weeks (300-392 hours).
Exhibit Dates: *Version 1:* 1/80-Present. *Version 2:* 5/73-12/79.
Objectives: To provide senior noncommissioned officers with a general working knowledge of infantry armor operations.
Instruction: *Version 1:* Lectures and practical exercises in tactical training, gunnery training methods and techniques, leadership skills to include communication both written and oral. *Version 2:* Lectures and practical exercises in automotive management; command and staff functions; tactical operations; internal defense and development; communications and electronics; and leadership and administration.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in military science/basic supervision at the associate degree level (technical) (2/80). *Version 2:* Credit is not recommended because of the military specific nature of the course (7/74).
Related Occupation Codes: 11D; 11E; 11J.

AR-2201-0185

Field Artillery Missiles/Rockets
Noncommissioned Officer (NCO)
Basic

Course Number: 043-15B40-EC; 043-15E40-EC; 043-15F40-EC.
Location: Field Artillery School, Ft. Sill, OK.
Length: 9-12 weeks (375-400 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train middle-level enlisted personnel to assume the duties of noncommissioned officer missilemen.
Instruction: Lectures and practical exercises in the weapons system, firing operations, controls, maintenance, loading, safety, and employment of the Honest John rocket, the Pershing missile, or the Sergeant missile.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).
Related Occupation Codes: 15B; 15E; 15F; 15Z.

AR-2201-0186

Combat Surveillance and Target
Acquisition Noncommissioned
Officer (NCO) Basic

Course Number: 412-17C40-EC; 412-82C40-EC.
Location: Field Artillery School, Ft. Sill, OK.
Length: 10-12 weeks (322-378 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train enlisted personnel to serve as noncommissioned supervisors in combat surveillance and target acquisition positions.
Instruction: Lectures and practical exercises in surveillance and location of targets leading to specialization as one of the following: counterbattery/countermortar radar crewman; sound ranging crewman; flash ranging crewman; field illumination crewman; artillery surveyor; meteorological observer; or ballistic meteorologist.
Credit Recommendation: Credit is not recommended because of the military specific nature of the course (7/74).
Related Occupation Codes: 17A; 17B; 17C; 17D; 17E; 17Z; 82C; 93E; 93F; 35D.

AR-2201-0187

Nuclear and Chemical Target
Analysis
(Nuclear, Biological, and Chemical (NBC) Weapons Target Analysis)
(Nuclear, Biological, and Chemical (NBC) Weapons Employment)
(Nuclear Weapons Employment)

Course Number: *Version 1:* 2E-ASI5H. *Version 2:* 2E-F13; 6-A-F26; 250-A-F1; 250-O-8.
Location: *All Versions:* Field Artillery School, Ft. Sill, OK. *Version 2:* Command and General Staff College, Ft. Leavenworth, KS.
Length: *Version 1:* 3-5 self paced weeks (Ft. Leavenworth, KS hours). *Version 2:* 3-5 weeks (115-175 hours).
Exhibit Dates: *Version 1:* 1/79-115-175. *Version 2:* 9/57-Present; 9/57-12/78.

Objectives: To provide officers with a knowledge of the considerations, techniques, and procedures required for the tactical employment of nuclear and chemical weapons.

Instruction: *All Versions:* Lectures and practical exercises in the fundamental effects of nuclear weapons; damage estimation and target analysis; chemical weapons employment and the tactical application of nuclear and chemical weapons; nuclear and chemical trends and developments; and foreign nuclear, biological, and chemical capabilities. *Version 1:* Includes math formulas, nomograms, semi logorithmic graphs, circular map scales, slide rule and probability statistics.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in general mathematics, 1 in nuclear explosion effects and damage estimation concepts; In the lower-division baccalaureate/associate degree category, 3 semester hours in nuclear technology (1/80); in the upper-division baccalaureate category, 2 semester hours in technical elective for non-engineering majors (1/80). *Version 2:* Credit is not recommended because of the military specific nature of the course (6/75).

AR-2201-0188

Associate Army Medical Service Company Officer

Course Number: 8-B-C3; 8-O-2.

Location: Medical Field Service School, Ft. Sam Houston, TX.

Length: 15 weeks (526-527 hours).

Exhibit Dates: 9/55-12/68.

Objectives: To provide command and staff training to company grade medical service officers.

Instruction: Instruction in company-level organization and administrative procedures including financial management; medical supply; hospital plant planning and maintenance; military law; records and legal aspects of civil emergencies; dental services; field medicine; preventive medicine; and veterinary science.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in advanced military science and 3 in business administration (6/75).

AR-2201-0189

Lance Officer

Course Number: 2F-13B; 2F-1190L.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5 weeks (148-165 hours).

Exhibit Dates: 6/74-Present.

Objectives: To provide selected officers with a working knowledge of the operation, maintenance, and employment of the Lance missile system.

Instruction: Lectures and practical experience in the capabilities and limitations of the missile system; basic physics of flight; basic components; fire direction procedures; nuclear warhead selection and tactical employment; missile assembly, handling, loading, and maintenance; and gunnery.

Credit Recommendation: In the vocational certificate category, 3 semester hours in shop management (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in shop management (6/75).

AR-2201-0190

Tactical Electronic Equipment Maintenance (EE-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 1-EE-C42A.

Location: Southeastern Signal School, Ft. Gordon, GA; Signal School, Ft. Gordon, GA.

Length: 10-12 weeks (369-449 hours).

Exhibit Dates: 1/74-Present.

Objectives: To provide selected enlisted personnel with a working knowledge of the duties required to perform as senior noncommissioned officers.

Instruction: Topics include advanced educational development, personnel management, military correspondence, unit administration, unit logistics, problem solving, and management of a maintenance facility.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (6/75).

AR-2201-0191

Artillery Officer Basic

Course Number: 44-A-C1C; 6-A-C1C.

Location: Artillery and Missile School, Ft. Sill, OK; Air Defense School, Ft. Bliss, TX.

Length: 20 weeks (675-706 hours).

Exhibit Dates: 4/58-12/61.

Objectives: To provide newly commissioned regular Army officers with basic branch training in field artillery.

Instruction: Lectures and practical exercises in artillery transport, communications and electronics; missiles and missile materials; gunnery, cannons and rockets; tactics; and target acquisition.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (7/74).

AR-2201-0192

Infantry Officer Basic

(Basic Infantry Officer)

Course Number: 2-7-C20; 7-A-C1.

Location: Infantry School, Ft. Benning, GA.

Length: 9-15 weeks (383-595 hours).

Exhibit Dates: 6/57-Present.

Objectives: To train newly commissioned officers in the duties and responsibilities of infantry platoon leaders in rifle and weapons platoons.

Instruction: Lectures and practical exercises in mechanical training and employment of infantry weapons to include rifles, machine guns, grenades, pistols, mortars, and tank weapons; infantry small unit tactics; signal communication; map and aerial photograph reading; combat intelligence, and leadership.

Credit Recommendation: In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (7/74).

AR-2201-0193

Field Artillery Officer Basic

(Regular Army Field Artillery Officer Basic)

(Field Artillery Officer Orientation)

Course Number: 2-6-C20; 2-6-C20(RA); 6-A-C20; 6-A-C1; 6-O-A.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 10 weeks (225-739 hours). *Version 2:* 6-17 weeks (225-739 hours).

Exhibit Dates: *Version 1:* 6/77-Present. *Version 2:* 8/55-5/77.

Objectives: *Version 1:* To prepare Field Artillery officers to function in their first duty assignments in the areas of training and maintenance management, leadership, fire direction techniques and coordination of artillery firing. *Version 2:* To prepare Field Artillery officers to function in their first duty assignments.

Instruction: *Version 1:* Instruction includes maintenance management, leadership, communications equipment; precision techniques in gunnery, both manual and FADAC computer; meteorological effects and computations, map and terrain association, survey procedures; artillery fire coordination and tactics. The course does not cover detailed specialties of cannon, missiles or target acquisition. The student takes a follow-up course of 9 weeks duration, in one of the 3 listed areas. *Version 2:* Instruction includes maintenance management, technical communications, and general military subjects.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in applied mathematics (4/80); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic mathematics, 1 in electronic communications systems (4/80); in the upper-division baccalaureate category, 2 semester hours in introduction to management and credit in advanced military science at institutions which normally offer such credit (4/80). *Version 2:* In the upper-division baccalaureate category, credit in advanced military science at institutions which normally offer such credit (6/75).

Related Occupation Codes: 11B; 11C.

AR-2201-0194

Non-Integrated Radar Maintenance (26-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 1-26-C40A.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8 weeks (297 hours).

Exhibit Dates: 12/75-7/76.

Objectives: This course provides selected enlisted personnel with a knowledge of those duties required to perform as a noncommissioned officer in grade E-6.

Instruction: Instruction in air defense management, artillery operations and tactics, and field training exercises.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (8/77).

Related Occupation Codes: 24P.

AR-2201-0195

Air Defense Missile Maintenance (23-CMF) Noncommissioned Officer (NCO) Basic

Course Number: 1-23-C40A.

Location: Air Defense School, Ft. Bliss, TX.

Length: 8 weeks (296-306 hours).

Exhibit Dates: 12/75-Present.

Objectives: To provide selected personnel with leadership training and general support information on advanced missile systems.

Instruction: Course includes principles of communication, oral and written; leadership training; personnel management; and operations overview of Nike, Hercules, and Hawk missile systems.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (8/77).

Related Occupation Codes: 28M; 25D; 25G; 25H; 25J; 25K; 24B; 26H; 24C; 24D; 24E; 24F; 24G; 24Q; 24U.

AR-2201-0196

Combat Missile Maintenance (27-CMF) Noncommissioned Officer (NCO) Advanced (USAADS)
(Air Defense Artillery (27-CMF) Noncommissioned Officer (NCO) Advanced (USAADS))

Course Number: None.

Location: Air Defense School, Ft. Bliss, TX.

Length: 10 weeks (366 hours).

Exhibit Dates: 10/76–Present.

Objectives: Course provides selected personnel with knowledge of duties required to perform in grade E-7 within this career management field.

Instruction: Course includes military management, communicative skills, military leadership and physical readiness, and general air defense topics. Content is military in nature.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/77).

Related Occupation Codes: 24M; 24N.

AR-2201-0197

Basic Military Training
(Recruit Training)

Course Number: None.

Location: Training Center, Ft. Benning, GA; Training Center, Ft. Gordon, GA; Training Center, Ft. McClellan, AL; Training Center, Ft. Jackson, SC; Training Center, Ft. Dix, NJ; Training Center, Ft. Knox, KY; Training Center, Ft. Leonard Wood, MO; Training Center, Ft. Sill, OK; Training Center, Ft. Bliss, TX.

Length: 8-11 weeks (245 hours).

Exhibit Dates: 12/79–Present.

Objectives: To provide training for all enlisted personnel who have had no previous military service.

Instruction: Course teaches discipline, spirit and basic combat skills and includes drills, ceremonies, alcohol and drug abuse, rape prevention, personal health, first aid, personal affairs, basic rifle marksmanship, NBC warfare defense, introduction to individual tactical techniques, U.S. weapons training, marches, bivouacs, tactical training, physical fitness training, reinforcement, and equal opportunity.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in outdoor skills practicum, 1 in marksmanship, 1 in personal health, and 1 in personal physical conditioning (9/79).

AR-2201-0198

Voice Operator Mission Training (German)

Course Number: 231-F14.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (118 hours).

Exhibit Dates: 5/76–Present.

Objectives: To train voice operators to exploit and immediately report combat information.

Instruction: Topics include extracts of traffic analysis, artillery, rocket launchers, and voice signal identification.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

Related Occupation Codes: 98G.

AR-2201-0199

Army Security Agency Tactical Support Element
(ASTE Operations)

Course Number: 2G-F17.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (152 hours).

Exhibit Dates: 4/75–Present.

Objectives: To prepare officers to work in the Army Security Agency (ASA) Tactical Support Element.

Instruction: Topics include concepts of electronic warfare, intelligence processing, and electronic countermeasures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

AR-2201-0200

Mission Training Analysis (Area 1)

Course Number: 232-F2.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (118 hours).

Exhibit Dates: 1/76–Present.

Objectives: To provide soldiers with training in the traffic analysis techniques and procedures required to process and report on Southeast Asian communications.

Instruction: Topics include signal intelligence reporting, Southeast Asian communications systems and operations, and an introduction to Southeast Asia.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

Related Occupation Codes: 98C.

AR-2201-0201

Mission Training Analysis (Area 2)

Course Number: 232-F3.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (121 hours).

Exhibit Dates: 2/76–Present.

Objectives: To train personnel in the traffic analysis techniques and procedures required to process and report on European Communist communications.

Instruction: Instruction to Soviet military communications, Soviet rocket operations, and Soviet defense plans.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

Related Occupation Codes: 98C.

AR-2201-0202

Mission Training Analysis (Area 3)

Course Number: 232-F4.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (124 hours).

Exhibit Dates: 2/76–Present.

Objectives: To train soldiers in the traffic analysis techniques and procedures required to process and report on Pacific communications.

Instruction: Topics include signal intelligence reporting, Peoples Republic of China communications systems, and an introduction to the Peoples Republic of China.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

Related Occupation Codes: 98C.

AR-2201-0203

Telemetry Collection Operations
(Space Collection (SPACOL) Operations)

Course Number: 233-F7.

Location: Intelligence School, Ft. Devens, MA.

Length: 6 weeks (168 hours).

Exhibit Dates: 7/75–Present.

Objectives: Course teaches annex operator training for military occupational specialty (MOS) 98J personnel being assigned to space collection operations.

Instruction: Topics include intercept equipment, satellite plotting, and report format.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

AR-2201-0204

General Electronic Warfare (EW) Cryptologic Officer (Reserve Component) Nonresident/Resident

Course Number: 3B-9600 (RC).

Location: Intelligence School, Ft. Devens, MA.

Length: In residence 2 weeks (66 hours).

Exhibit Dates: 11/75–Present.

Objectives: To train reserve officers to perform electronic warfare cryptologic duties.

Instruction: Instruction in foreign communication systems, U.S. communications systems, and associated field communications systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

AR-2201-0205

Guardrail IV System Maintenance

Course Number: 102-F34.

Location: Intelligence School, Ft. Devens, MA.

Length: 7 weeks (164 hours).

Exhibit Dates: 9/75–Present.

Objectives: To train students to maintain selected assemblies of the Guardrail IV system.

Instruction: Course contains information on maintenance of a specific military system.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (9/77).

AR-2201-0206

Advanced Identification Techniques Operations

Course Number: 231-F7.

Location: Intelligence School, Ft. Devens, MA.

Length: 5 weeks (146 hours).

Exhibit Dates: 5/74–Present.

Objectives: To train personnel in advanced identification techniques.

Instruction: Course trains the operator in advanced identification techniques, equipment calibration and operation, transmitter characteristics, and records and reports.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

AR-2201-0207

Voice Operator Mission Training No. 1 (Russian)

Course Number: 231-F12.
Location: Intelligence School, Ft. Devens, MA.
Length: 4 weeks (118 hours).
Exhibit Dates: 1/76–Present.
Objectives: To train the voice operator to exploit and immediately report combat information.
Instruction: Topics include military organization, artillery, rocket launchers, and identification of voice signals.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).
Related Occupation Codes: 98G.

AR-2201-0208

Electronic Warfare (EW) Countermeasures Receiving Systems Operations
(Electronic Warfare (EW) Countermeasures Receiving System Operator)

Course Number: 233-F5.
Location: Intelligence School, Ft. Devens, MA.
Length: 5 weeks (141 hours).
Exhibit Dates: 4/73–Present.
Objectives: To train students to intercept, log, record, and report communications signals.
Instruction: Topics include tactical reporting, equipment, and practical exercises.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/77).

AR-2201-0209

Electronic Warfare (EW) Noncommunication Interceptor-Analyst Basic Technical

Course Number: 232-98J30.
Location: Intelligence School, Ft. Devens, MA.
Length: 12 weeks (370–380 hours).
Exhibit Dates: 4/77–Present.
Objectives: Course prepares electronic warfare signal intelligence noncommunications interceptor-analysts to supervise noncommunications collection and analysis operations.
Instruction: Topics include threat assessment, map reading, field operations, and components of electronic warfare.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management and supervision (9/77).
Related Occupation Codes: 98J.

AR-2201-0211

Combat Missile Mechanic (271-CMF) NCO Basic

Course Number: C-271-C40.
Location: Air Defense School, Ft. Bliss, TX.
Length: 8 weeks (294–298 hours).
Exhibit Dates: 12/75–7/76.
Objectives: This course provides selected enlisted personnel with a knowledge of those duties required to perform as noncommissioned officers in grade E-6.
Instruction: Course includes military leadership, general military subjects, and air defense artillery topics.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/77).
Related Occupation Codes: 24M; 24N.

AR-2201-0212

Warrant Officer Candidate Military Development

Course Number: 2C-F32.
Location: Aviation Center, Ft. Rucker, AL.
Length: 6 weeks (220 hours).
Exhibit Dates: 8/77–Present.
Objectives: To develop stamina, will, leadership, physical conditioning and future potential in military setting.
Instruction: Military subjects covered include communicative arts, military personnel management, maintenance management, strategy, and warrant officer development subjects.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/78).
Related Occupation Codes: 10/78.

AR-2201-0213

Field Artillery Cannon (FA-CMF) Noncommissioned Officer (NCO) Advanced

Course Number: 0-13-C42.
Location: Field Artillery School, Ft. Sill, OK.
Length: *Version 1:* 8–11 weeks (277–402 hours). *Version 2:* 10–12 weeks (359–363 hours).
Exhibit Dates: *Version 1:* 8/78–Present. *Version 2:* 7/73–6/77.
Objectives: To train the noncommissioned officer to be an exporter of modern battlefield tactics, techniques and procedures to the gaining unit.
Instruction: *All Versions:* Subjects include target acquisition, communications electronics, tactics and combined arms, weapons, gunnery and field artillery. *Version 1:* Leadership training and supervision skills are emphasized for all students. Map reading and plotting to determine azimuth and elevation are emphasized for those students having MOS 13B and 13E.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, For all students completing the course, 2 semester hours in leadership fundamentals; for those students holding MOS 13B and 13E, 1 semester hour in map reading. *Version 2:* Credit is not recommended because of the military specific nature of the course (11/77).
Related Occupation Codes: 13B; 13E; 13Z.

AR-2201-0214

Master Gunner (M551)

Course Number: 020-F2.
Location: Armor School, Ft. Knox, KY.
Length: 12 weeks (448 hours).
Exhibit Dates: 3/76–Present.
Objectives: To prepare students to assist squadron and troop commanders in the planning and implementation of tank gunnery training programs.
Instruction: Subjects covered include weapons maintenance and gunnery, automotive subjects and leadership areas.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/77).

AR-2201-0215

Master Gunner (M60A2)

Course Number: 020-F3.
Location: Armor School, Ft. Knox, KY.
Length: 14 weeks (522 hours).
Exhibit Dates: 5/77–Present.
Objectives: To prepare highly selected noncommissioned officers to assist tank company/battalion commanders in the planning and implementation of tank gunnery training programs.
Instruction: Subjects include gunnery, maintenance, target acquisition, conduct of fire, tank tables, range management and organizational maintenance required on the M60A2 turret and weapon systems.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/77).

AR-2201-0216

Master Gunner (M60A1/A3)

Course Number: 020-F1.
Location: Armor School, Ft. Knox, KY.
Length: 12 weeks (448 hours).
Exhibit Dates: 2/76–Present.
Objectives: To prepare highly selected noncommissioned officers to assist tank company/battalion commanders in the planning and implementation of tank gunnery training programs.
Instruction: Subjects include gun elevating and turret traversing systems, use of firing tables, tank tables, conduct of fire (advanced) and stabilization systems.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/77).

AR-2201-0217

Senior Commanders Orientation

Course Number: None.
Location: Armor School, Ft. Knox, KY.
Length: 2 weeks (83 hours).
Exhibit Dates: 5/75–Present.
Objectives: To provide commanders an orientation to contemporary management and personnel problems found in the Army.
Instruction: Lectures, seminars and role-playing skits dealing with contemporary problems, developing leadership, and behavioral science with an emphasis on racial tensions, drug abuse and alcoholism.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in military science. NOTE: If student has completed 8A-F23 Senior Officer Preventative Logistics, additional credit for this course should not be granted (2/80).

AR-2201-0218

Special Career Level Artillery Advanced Gunnery (USMC)

Course Number: 2E-F49.
Location: Field Artillery School, Ft. Sill, OK.
Length: 4 weeks (140 hours).
Exhibit Dates: 5/75–Present.
Objectives: To provide commissioned officers with supervisory skills required of a battalion instructional officer or battery commander.
Instruction: A survey course covering all operations required for directing fire of cannon using both manual and computer assisted techniques.
Credit Recommendation: Credit is not recommended due to the military-specific nature of the course (1/80).

AR-2201-0219

Field Artillery Cannon Battery Officer

Course Number: 2E-13A.
Location: Field Artillery School, Ft. Sill, OK.

Length: 8 weeks (320 hours).
Exhibit Dates: 10/75–Present.
Objectives: To train officers in the techniques, processes and procedures and to provide the background knowledge necessary for functioning in a cannon-equipped unit.
Instruction: Lectures and practical exercises in communications equipment, weapons characteristics, and capabilities, tactics, nuclear projectiles and safety, survey concepts, and FADAC computer use in mathematical solutions. Major emphasis is in gunnery fire techniques including ballistic corrections, high angle trajectory and special employment techniques.
Credit Recommendation: Credit is recommended on the basis of institutional evaluation (1/80).

AR-2201-0220

LANCE MISSILE CREWMAN

Course Number: 043-15D10.
Location: Field Artillery School, Ft. Sill, OK.
Length: 5 weeks (171 hours).
Exhibit Dates: 2/79–Present.
Objectives: To provide students with the knowledge and duties required to perform as a Lance Missile crewman.
Instruction: Training emphasizes hands-on experience in the assembly and transportation, aiming, operating and daily preventative maintenance of the Lance Missile system.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/80).

AR-2201-0221

CIVIL MILITARY OPERATIONS

Course Number: 4N-2180; 500-F3.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 2 weeks (72 hours).
Exhibit Dates: 7/75–Present.
Objectives: Prepares officers and noncommissioned officers for general staff assignments invaluing civil-military operations.
Instruction: Lectures, conferences and practical exercises in military/civil operations in three broad areas—civil affairs including government functions to be assumed by military personnel such as safety, health and civil defense; psychological warfare including use of persuasive techniques in communicating policy to indigenous groups and civil/military operations including planning for and managing civilian populations to either support or tolerate military actions.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in military science and tactics (2/80).

AR-2201-0222

MILITARY FREE FALL PARACHUSTIST
(Special Forces Military Free Fall Parachutist)

Course Number: 2E-F48; 011-F11.
Location: Institute for Military Assistance, Ft. Bragg, NC.
Length: 4 weeks (172–191 hours).
Exhibit Dates: 12/76–Present.
Objectives: To qualify male commissioned officers and enlisted men as military free-fall parachutists.
Instruction: Practical exercises in executing free-fall parachute jumps commencing at 12,500 feet actual, progressing to 35,000 feet actual, to demonstrate competency. Includes practice in body stabilization and use of canopy control techniques after parachute deployment to assemble in the air and land with fellow parachutists in a tactical grouping.
Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/77).
Related Occupation Codes: 11B; 11C; 12B; 91B; 05B.

AR-2201-0223

INFANTRY OFFICER ADVANCED RESERVE COMPONENTS

Course Number: 2-7-C26.
Location: Infantry School, Ft. Benning, GA.
Length: 12 weeks (396–397 hours).
Exhibit Dates: 5/78–Present.
Objectives: To prepare commissioned officers to train and command at company level.
Instruction: Course includes combined arms tactcs, staff and general subjects, weapons, and unit/materiel readiness.
Credit Recommendation: Pending evaluation.

AR-2201-0224

PRIMARY LEADERSHIP (SIGNAL) BY CORRESPONDENCE

Course Number: R04.
Location: Institute for Professional Development, Ft. Eustis, VA.
Length: Maximum 104 weeks (Ft. Eustis, VA hours).
Exhibit Dates: 12/79–Present.
Objectives: To provide a working knowledge of and the skills for performance of basic leadership tasks.
Instruction: The course presents instruction in various leadership tasks necessary for enlisted personnel to advance with their individual career programs.
Credit Recommendation: Credit is not recommended because of the limited nature of the course (5/79).

DD

DD-0326-0001

ARMED FORCES STAFF COLLEGE

Course Number: None.
Location: Armed Forces Staff College, Norfolk, VA.
Length: *Version 1:* 21 weeks (634 hours). *Version 2 :* 21 weeks (548–642 hours).
Exhibit Dates: *Version 1:* 6/73–Present. *Version 2:* 7/54–5/73.
Objectives: To train officers in joint and combined military organization, planning, and operations, and in related aspects of national and international security.
Instruction: Lectures, readings, and student research and discussions in joint and combined military organization, planning, and operations, and in related aspects of national and international security.
Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in principles and problems of management, 3 in international relations (Current Problems in World Politics), 3 in contemporary U.S. military history and national security policy, 3 in communicative arts (8/74); in the graduate degree category, 3 semester hours in management and systems analysis (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and regulations of the admitting institution on transfer credit. *Version 2:* In the upper-division baccalaureate category, 6 semester hours in business administration, 6 in political science—including international relations—3 in recent military history (8/74).

DD-0327-0001

DEFENSE SECURITY ASSISTANCE MANAGEMENT OVERSEAS
(Core/Overseas)

Course Number: SAM-O.
Location: Defense Institute of Security Assistance, Wright-Patterson AFB, OH.
Length: 4–5 weeks (114 hours).
Exhibit Dates: 10/78–Present.
Objectives: To provide Department of Defense overseas representatives with the policies and procedures governing their conduct of operation overseas. Security assistance management is discussed from the national policy level through implementation by responsible agencies.
Instruction: This course covers the management of military sales to foreign countries as it relates to planning programming budget systems (PPBS), foreign policy, legal status overseas, physical security, cross cultural communications, government contracting, export controls and government procurement management. The method of instruction includes lecture, real-life case studies, simulator exercises and interaction with practitioners in the field.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in international business (11/78)

DD-0504-0001

INFORMATION SPECIALIST (JOURNALIST)
(Basic Military Journalist)

Course Number: ABA79130-1(USAF); 570-71Q20; A-570-0011(USN); 28-R-701.1.
Location: Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.
Length: *Version 1:* 10 weeks (396 hours). *Version 2:* 9–10 weeks (344–358 hours). *Version 3:* 10 weeks (396–440 hours).
Exhibit Dates: *Version 1:* 8/79–Present. *Version 2:* 4/72–7/79. *Version 3:* 12/64–3/72.
Objectives: To teach selected enlisted personnel the principles, techniques, and skills required in public information, service information, and community relations.
Instruction: *All Versions:* Lectures and practical experiences in print journalism, including interviewing techniques, news and feature writing, editing, newspaper layout and makeup; photojournalism, including the taking, processing, and printing of photographs; radio and television writing; speech; international relations and government; public affairs. Print media, broadcast media, and photography are emphasized. *Version 1:* Print media, public affairs photojournalism and broadcast journalism are emphasized. *Version 2:* Print media skills, public affairs and photojournalism emphasized. *Version 3:* Print media, broadcast media and photography are emphasized.
Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 5 semester hours in news writing and reporting (print), 2 in news writing and reporting (electronics), 2 in photojournalism and 2 in layout and design (2/80). *Version 2:* In the lower-division

baccalaureate/associate degree category, 3 semester hours in mass communications and 3 in introduction to print and photojournalism (2/78). *Version 3:* In the vocational certificate category, 3 semester hours in mass media (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in mass media (12/73); in the upper-division baccalaureate category, 3 semester hours in journalism, and credit in social sciences and oral communication on the basis of institutional evaluation (12/68).

DD-0504-0002

Advanced Information Specialist

Course Number: *Version 1:* 570-F1. *Version 2:* 5AAA79170 (USAF); A-570-0012 (USN); 570-F1; 570-F1; A-570-0012; 5AAA79170. *Version 3:* 28-R-F1.

Location: *Version 1:* Defense Information School, Ft. Benjamin Harrison, IN. *Version 2 :* Defense Information School, Ft. Benjamin Harrison, IN. *Version 3 :* Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.

Length: *Version 1:* 3 weeks (106 hours). *Version 2:* 3 weeks (98–106 hours). *Version 3:* 8 weeks (352 hours).

Exhibit Dates: *Version 1:* 10/79–Present. *Version 2:* 9/72–9/79. *Version 3:* 3/55–8/72.

Objectives: To provide advanced training in the planning, supervision, and coordination of information activities for selected noncommissioned and petty officers who will perform duties as assistants to the officer-in-charge of an information office/section or a radio and television facility.

Instruction: *All Versions:* including news, headline, editorial, and feature writing; page layout and makeup; radio and television, including news and feature writing, announcing, studio operations, television camera techniques, control room operation, newscast preparation and production, blocking scripts, and television feature production. *Version 1:* Emphasis is placed on applied management and supervisory skills.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hour in media management (2/80). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in media management (journalism) (8/78). *Version 3:* In the vocational certificate category, 3 semester hours in mass media (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in mass media (12/73); in the upper-division baccalaureate category, 3 semester hours in journalism, and credit in social sciences on the basis of institutional evaluation (12/68).

Related Occupation Codes: 71Q; 71Q.

DD-0504-0003

Newspaper Editor

Course Number: 570-F2; A-570-0013; 5AZA79150.

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (118–132 hours).

Exhibit Dates: 7/68–Present.

Objectives: To provide additional print journalism instruction to personnel assigned as editors of military newspapers and magazines.

Instruction: Beginning in 1976, course becomes a highly individualized, self-paced program consisting of pretest, group-paced, self-paced, final performance test and newspaper improvement project. Subject areas include photojournalism, print journalism and public affairs. Lectures and practical experience cover all phases of newspaper production, culminating with a 4-page service newspaper or, beginning in 1976, a tabloid size page of a hypothetical military newspaper. Workshop includes communications law, Department of Defense policy on release of information, newsgathering, writing, editing, style, deadlines, photo selection and editing, and layout and page makeup.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in newspaper production (journalsim) (2/78).

DD-0504-0004

Information Enlisted
(Information Specialist)

Course Number: 28-E-1; 28-R-701.1; 28-R-703.1; 28-R-703.2.

Location: Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.

Length: 8–10 weeks (278–345 hours).

Exhibit Dates: 11/56–12/68.

Objectives: To provide enlisted personnel with a working knowledge in the selection, evaluation, preparation, and dissemination of Army information through available media of communications.

Instruction: Policy and plans, including public relations philosophy and practice, and information aspects of unusual incidents, stressing the case-study approach; applied journalism, with performance skills in all tasks required to publish a service newspaper; research communications, stressing preparation of the information specialist for public speaking, speech writing, briefings, and group discussions; radio and television, including training in writing, announcing, and production staff functions; internal relations and government, stressing the U.S. international position in terms of world patterns.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in mass media (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications, and credit in journalism on the basis of institutional evaluation (12/68).

DD-0504-0005

Troop Information and Education Enlisted

Course Number: 28-E-1.

Location: Defense Information School, Ft. Slocum, NY.

Length: 8 weeks (352 hours).

Exhibit Dates: 4/54–12/68.

Objectives: To train enlisted personnel to assist in the organization, operation, and supervision of troop information and education programs.

Instruction: Policies and operational procedures; speech preparation and presentation; discussion-leading techniques; organization of group study activities; testing procedures; advisement principles; practical exercises in newsgathering and newswriting; troop information radio broadcasting; comprehensive study of citizenship, history, government, and international affairs; fundamentals of typewriting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in mass communications (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in mass communications (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications (12/68).

DD-0504-0006

Troop Information and Education Officer

Course Number: 28-O-6.

Location: Defense Information School, Ft. Slocum, NY.

Length: 8 weeks (352–360 hours).

Exhibit Dates: 5/54–12/68.

Objectives: To train officers to supervise instruction periods and other activities of the Army's troop information and education programs.

Instruction: Policies and procedures; speech preparation and presentation; discussion-leading techniques; organization of group study activities; instructor selection; testing procedures; advisement principles; practical exercises in newsgathering and newswriting; troop information radio broadcasting; comprehensive study of citizenship, history, government, and international affairs.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in journalism (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in journalism (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in journalism (12/68).

DD-0504-0007

Public Information Officer

Course Number: 28-O-5.

Location: Information School, Ft. Slocum, NY.

Length: 8 weeks (360 hours).

Exhibit Dates: 5/54–12/68.

Objectives: To train officers to perform and/or supervise the preparation of news stories, special articles, posters, photographs, radio and television programs, and other informational material for release to information media; to establish speakers bureaus; and to promote friendly relations with information media representatives and civilian communities.

Instruction: Policies and procedures; speech preparation and presentation; public speaking exercises; use of visual-mechanical aids; basic photographic techniques, including camera operation, film processing, photo printing, picture selection, film types and exposures, and picture story assignments; civilian press operation, organization, and philosophy; newswriting; preparation of material for radio and television broadcasts; citizenship, history, government, and international affairs.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in mass media (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in mass media (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications (12/68).

DD-0504-0008

Public Information Enlisted

Course Number: 28-E-2.

Location: Information School, Ft. Slocum, NY.

Length: 8 weeks (360 hours).

Exhibit Dates: 4/54–12/68.

Objectives: To train enlisted personnel to collect, prepare, and disseminate information to newspapers, magazines, radio, television, and other informational media, and to assist in promotion of other public relations activities.

Instruction: Policies and procedures; speech preparation and presentation; public speaking exercises; use of visual-mechanical aids; basic photographic techniques, including camera operation, film processing, photo printing, picture selection, film types and exposures, and picture story assignments; civilian press operation, organization, and philosophy; newswriting and related activities; preparation of material for radio and television broadcasts; citizenship, government, history, and international affairs; typing.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in mass media (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in mass media (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications (12/68).

DD-0504-0009

1. Information Officer
2. Information Officer
3. Information Officer Basic

Course Number: *All Versions:* 7G-5505. *Version 1:* 50BA7921-1; A-7G-0010; 7G-46A. *Version 2:* 50BA7921-1 (USAF); A-7G-0010. *Version 3:* 28-G-5505.

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 8 weeks (306 hours). *Version 2:* 8 weeks (270–278 hours). *Version 3:* 8 weeks (284–285 hours).

Exhibit Dates: *Version 1:* 6/79–Present. *Version 2:* 1/72–5/79. *Version 3:* 1/65–12/71.

Objectives: To train commissioned officers as information specialists with competency in journalistic writing, editing, basic photography, radio and television writing and announcing, and public speaking.

Instruction: Lectures and practical exercises in the duties of an information specialist. Course includes journalistic writing and editing, basic photography, radio and television writing and announcing, public speaking, public information techniques and community relations, and study of international press and government attitudes.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 6 semester hours in public relations (journalism)(2/78). *Version 3:* In the vocational certificate category, 6 semester hours in journalism (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in journalism (7/74); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 semester hour in oral communication, and additional credit in journalism on the basis of institutional evaluation (12/68).

DD-0504-0010

Shipboard Information, Training and Entertainment (SITE) System Operators (Television Afloat)

Course Number: A-570-0010(S) (USN).

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (81 hours).

Exhibit Dates: 10/76–Present.

Objectives: To train selected junior naval personnel as shipboard information, training, and entertainment system operators/administrators aboard designated ships.

Instruction: Through practical exercises, demonstration, and individual critique, the student learns the basics of video production, equipment utilization and maintenance, and external news relations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in introduction to video production (2/78).

DD-0504-0011

Information Officer (Reserve Component)

Course Number: 7G-F3 (RC).

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (69 hours).

Exhibit Dates: 6/72–Present.

Objectives: To train reserve officers in functions of information specialists with emphasis or public relations, writing for print and broadcast media, photo editing and composition, internal information and community relations,

Instruction: Lectures and exercises in the duties of an information specialist including public relations principles, writing and editing for print and broadcast media, techniques for use of broadcast equipment and exercises in public information problems.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in public relations (journalism)(2/78).

DD-0505-0001

1. Information Specialist (Broadcaster)
2. Information Specialist (Broadcaster)
3. Broadcast Specialist
4. Broadcast Specialist (Radio and Television Production Specialist)

Course Number: *Version 1:* 570-71R10 (USA); A-570-0010 (USN); 5ALA-79131 (USAF); 570 (USMC). *Version 2:* 570-71Q20; A-570-0010; 5ALA79131. *Version 3:* 570-71R20. *Version 4:* AZA72151-1; 28-R-703;1 28-R-703.2.

Location: Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.

Length: *Version 1:* 10 weeks (348-397 hours). *Version 2:* 10 weeks (348–397 hours). *Version 3:* 8 weeks (287–298 hours). *Version 4:* 3 weeks (110 hours).

Exhibit Dates: *Version 1:* 10/79–Present. *Version 2:* 11/69–9/79. *Version 3:* 5/66–10/69. *Version 4:* 7/64–4/66.

Objectives: To train selected enlisted personnel to perform as broadcasters for military radio or television outlets.

Instruction: *All Versions:* Lectures and practical experience in applied journalism, including newsgathering, motion picture operation and editing; speech and research training; intensive indoctrination in radio and television, including programming, writing, operation, logs, control room, TV production, broadcast regulations, and appropriate examinations; and study of international relations. *Version 1:* Does not include motion picture operation and editing, TV production, broadcast regulations and study of international relations. *Version 2:* Does not include motion picture operation and editing, TV production, broadcast regulations and study of internation relations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic writing for electronic media or continuity writing, 3 in introduction to radio and television techniques (2/78). *Version 3:* In the vocational certificate category, 6 semester hours in broadcast journalism (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast journalism (12/73); in the upper-division baccalaureate category, 3 semester hours in radio and television programming (12/68). *Version 4:* In the vocational certificate category, 2 semester hours in broadcast journalism (12/73); in the lower-division baccalaureate/associate degree category, 1 semester hour in broadcast journalism (12/73); in the upper-division baccalaureate category, 1 semester hour in radio and television programming (12/68).

DD-0505-0002

Broadcast Officer

Course Number: *All Versions:* 7G-5522 (USA). *Version 1:* 7G-0011 (USN). *Version 2:* 7G-5522. *Version 3:* 28-A5522.

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 6-7 weeks (229–257 hours). *Version 2:* 4 weeks (148 hours). *Version 3:* 3 weeks (110 hours).

Exhibit Dates: *Version 1:* 3/72–Present. *Version 2:* 12/67–2/72. *Version 3:* 7/64–11/67.

Objectives: To train selected commissioned officers, warrant officers, and civilians in the the basics of radio and television production. Additional management skills are introduced to provide the basic skills needed for: management of an American Forces Radio and Television Service (AFRTS) outlet, management of broadcast operations in a public affairs office, and management of stateside closed-circuit broadcast facilities.

Instruction: Course includes lectures and practical experiences in radio and television programming and production; additional individual attention to basic management skills.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in introducton to radio and television production (2/78). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radio and television programming (7/74) *Version 3:* In the lower-division baccalaureate/associate degree category, 1 semester hours in radio and television programming (7/74)

DD-0505-0003

Electronic Journalism

Course Number: 570-F3.

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (75 hours).

Exhibit Dates: 11/79–Present.

Objectives: To provide training in the planning, production, and editing of news and information features for television, utilizing electronic news gathering equipment and techniques.

Instruction: Training and practical experience in videotape editing techniques, portapak operations, and news gathering.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic news gathering and editing techniques (2/80).

DD-0602-0001

Defense Language Institute Basic Courses (1954–1956)

(Albanian)
(Arabic)
(Bulgarian)
(Chinese—Cantonese)
(Chinese—Mandarin)
(Czech)
(Danish)
(French)
(German)
(Greek)
(Hungarian)
(Italian)
(Japanese)
(Korean)
(Norwegian)
(Persian)
(Polish)
(Portuguese)
(Romanian)
(Russian)
(Serbo-Croatian)
(Spanish)
(Swedish)
(Turkish)

Course Number: None.

Location: Army Language School, Presidio of Monterey, CA.

Length: 23–46 weeks.

Exhibit Dates: 1/54–12/56.

Objectives: To train officers and enlisted personnel in the interpretation or translation of a foreign language, and to provide basic military, geographic, economic, historical, and political information about the country or area in which the language is spoken. (These area studies are taught in the foreign language.)

Instruction: Lectures, discussions, and oral drills on the language of a foreign country and basic military, geographic, economic, historical, and political information about the country in which the language is spoken. While these courses are listed as Basic, it should be understood that this is the terminology used by the armed forces to indicate that the courses are their 'regular' programs in the various languages. They are not limited to what most civilian institutions would term beginning or basic courses in a language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 18 semester hours in ALBANIAN for the 46-week course; 18 in ARABIC for the 46-week course; 18 in BULGARIAN for the 46-week course; 26 in CHINESE—CANTONESE for the 46-week course; 26 in CHINESE—MANDARIN for the 46-week course; 18 in CZECH for the 46-week course; 15 in DANISH for the 23-week course; 15 in FRENCH for the 23-week course; 15 in GERMAN for the 23-week course; 18 in GREEK for the 46-week course; 18 in HUNGARIAN for the 46-week course; 15 in ITALIAN for the 23-week course; 26 in JAPANESE for the 46-week course; 18 in KOREAN for the 46-week course; 15 in NORWEGIAN for the 23-week course; 18 in PERSIAN for the 46-week course; 18 in POLISH for the 46-week course; 15 in PORTUGUESE for the 23-week course; 18 in ROMANIAN for the 36-week course; 18 in RUSSIAN for the 46-week course; 18 in SERBO-CROATIAN for the 46-week course; 15 in SPANISH for the 23-week course; 15 in SWEDISH for the 23-week course; 18 in TURKISH for the 46-week course (8/74). NOTE: The credit recommended for these programs is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) The least difficult languages for the English speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0002

Defense Language Institute Basic Courses (After 1956)

(Albanian)
(Arabic)
(Bulgarian)
(Burmese)
(Chinese—Cantonese)
(Chinese—Fukienese)
(Chinese—Toishan)
(Chinese—Mandarin)
(Czech)
(Danish)
(Finnish)
(French)
(German)
(Greek)
(Hungarian)
(Indonesian)
(Indonesian—Malay)
(Italian)
(Italian—Sicilian)
(Japanese)
(Korean)
(Lithuanian)
(Malay)
(Norwegian)
(Persian)
(Polish)
(Portuguese)
(Romanian)
(Russian)
(Serbo-Croatian)
(Slovenian)
(Spanish)
(Swahili)
(Swedish)
(Thai)
(Turkish)
(Ukrainian)
(Vietnamese—Saigon Dialect)
(Vietnamese—Hanoi Dialect)

Course Number: None.

Location: West Coast Branch, Presidio of Monterey, CA.

Length: 24–47 weeks.

Exhibit Dates: 1/57–Present.

Objectives: To train military personnel in the interpretation and translation of the designated language and to provide basic military, geographic, economic, historical, and political information about the country, and/or area, in which the language is spoken. (These area studies are taught in the foreign language.)

Instruction: Lectures, discussions, and oral drills in the interpretation and translation of the designated language, and additional training in the basic military, geographic, economic, historical, and political information about the country in which the language is spoken. NOTE: While these courses are listed as Basic, it should be understood that this is the terminology used by the Armed Forces to indicate that the courses are their 'regular' programs in the various languages. They are not limited to what most civilian institutions would term beginning or basic courses in a language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 21 semester hours in ALBANIAN for the 47-week course; 27 in ARABIC for the 47-week course (21 semester hours if the course was taken prior to 1970); 21 in BULGARIAN for the 47-week course; 21 in BURMESE for the 47-week course; 27 in CHINESE—CANTONESE for the 47-week course; 27 in CHINESE—FUKIENESE for the 47-week course; 27 in CHINESE—TOISHAN for the 47-week course; 27 in CHINESE—MANDARIN for the 47-week course; 21 in CZECH for the 47-week course; 15 in DANISH for the 24-week course; 21 in FINNISH for the 47-week course; 15 in FRENCH for the 24-week course; 15 in GERMAN for the 24-week course, 17 for the 32-week course (15 semester hours if the course was taken prior to 1970); 21 in GREEK for the 47-week course; 21 in HUNGARIAN for the 47-week course; 18 in INDONESIAN for the 36-week course, 21 for the 47-week course; 21 in INDONESIAN—MALAY for the 47-week course; 15 in ITALIAN for the 24-week course; 18 in ITALIAN—SICILIAN for the 37-week course; 27 in JAPANESE for the 47-week course; 27 in KOREAN for the 47-week course; 21 in LITHUANIAN for the 47-week course; 18 in MALAY for the 36-week course; 15 in NORWEGIAN for the 24-week course; 21 in PERSIAN for the 47-week course; 21 in POLISH for the 47-week course; 15 in PORTUGUESE for the 24-week course; 18 in ROMANIAN for the 37-week course; 21 in RUSSIAN for the 47-week course; 21 in SERBO-CROATIAN for the 47-week course; 21 in SLOVENIAN for the 47-week course; 15 in SPANISH for the 24-week course; 18 in SWAHILI for the 37-week course; 15 in SWEDISH for the 24-week course; 21 in THAI for the 47-week course; 18 in TURKISH for the 41-week course, 21 for the 47-week course; 21 in UKRAINIAN for the 47-week course; 21 in VIETNAMESE—HANOI DIALECT for the 47-week course; 21 in VIETNAMESE—SAIGON DIALECT for the 47-week course (8/74).

DD-0602-0003

Defense Language Institute Aural Comprehension Courses

(Albanian)
(Arabic)
(Bulgarian)
(Burmese)
(Chinese—Mandarin)
(Czech)
(French)
(German)
(Hungarian)
(Indonesian)
(Japanese)
(Korean)
(Persian)
(Polish)
(Portuguese)
(Romanian)
(Russian)
(Russian Stenotype)

(Serbo-Croatian)
(Spanish)
(Thai)
(Turkish)
(Vietnamese—Hanoi Dialect)

Course Number: None.

Location: West Coast Branch, Presidio of Monterey, CA.

Length: 23–50 weeks.

Exhibit Dates: 1/54–Present.

Objectives: To train students to comprehend the designated language as spoken by a foreign national.

Instruction: The Aural Comprehension Courses were established at the West Coast Branch on July 1, 1964 (except for the courses in Russian, which were offered previously). Although some reading and writing is included in these courses, they are designed primarily to teach students to comprehend the language as spoken by a foreign national. The spoken language is emphasized as a necessary corollary for developing comprehension skill.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 15 semester hours in ALBANIAN for the 37-week course; 15 in ARABIC for the 47-week course; 15 in BULGARIAN for the 37-week course; 12 in BURMESE for the 37-week course; 12 in CHINESE—MANDARIN for the 33-week course, 15 for the 37-week course, 18 for the 47-week course, and 12 for the 32-week SPECIAL course; 15 in CZECH for the 37-week course; 12 in FRENCH for the 24-week course; 12 in GERMAN for the 24-week course; 15 in HUNGARIAN for the 37-week course; 15 in INDONESIAN for the 37-week course; 15 in JAPANESE for the 37-week course; 12 in KOREAN for the 37-week course; 15 in PERSIAN for the 37-week course; 15 in POLISH for the 37-week course; 12 in PORTUGUESE for the 24-week course; 15 in ROMANIAN for the 37-week course; 15 in RUSSIAN for the 23- or the 24-week course, 18 for the 37-week RUSSIAN course or the 50-week RUSSIAN STENOTYPE course; 15 in SERBO-CROATIAN for the 37-week course; 12 in SPANISH for the 24-week course; 12 in THAI for the 37-week course; 15 in TURKISH for the 37-week course; 15 in VIETNAMESE—HANOI DIALECT for the 37-week course, 18 for the 47-week course (8/74). NOTE: Since the Aural Comprehension Courses do not place equal stress on the four language skills, they are recommended for less credit than the Basic Courses. It will be noted that the maximum credit recommended for a 37-week Aural Comprehension Course varies from 12 to 18 semester hours. This credit variation is based primarily upon the higher reading and writing content in those courses recommended for 15 and 18 semester hours. The 50-week Russian Stenotype Course includes the regular 37-week Russian Aural Comprehension Course and 13 weeks of stenotype training. Also: The credit recommended for the program is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0004

Defense Language Institute Short Basic Courses

(Arabic)
(French)
(German)
(Greek)
(Indonesian)
(Italian)
(Japanese)
(Korean)
(Persian)
(Portuguese)
(Romanian)
(Spanish)
(Thai)
(Turkish)
(Vietnamese—Saigon Dialect)

Course Number: None.

Location: West Coast Branch, Presidio of Monterey, CA.

Length: 6–24 weeks.

Exhibit Dates: 1/54–Present.

Objectives: To train officer and enlisted personnel from each branch of the armed services, and certain civilian personnel, in the comprehension, speaking, reading, and writing of the target language at a limited fluency level, with primary emphasis on comprehension and speaking; and to provide basic military, geographic, cultural, and political information about the country or area in which the language is spoken.

Instruction: Lectures, discussions, and oral drills in the comprehension, speaking, reading, and writing of the target language, and additional training in the basic military, geographic, cultural, and political information about the country or area in which the language is spoken. NOTE: The Short Basic Courses at the West Coast Branch are abbreviated versions of the Basic Courses, using the same instructional materials. Less credit is recommended for these programs than for the Basic Courses. However, it will be noted that certain Short Basic Courses, although not as long as the Aural Comprehension Courses in the same languages, carry the same or larger credit recommendations. The difference in these recommendations can be attributed to the fact that the Short Basic Courses are 'more academically suitable' than the Aural Comprehension Courses (i.e., they have a higher reading and writing content).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 8 semester hours in ARABIC for the 12-week course, 15 for the 24-week course; 8 in FRENCH for the 12-week course; 8 in GERMAN for the 12-week course, 10 for the 16-week course; 8 in GREEK for the 12-week course; 8 in INDONESIAN for the 12-week course; 8 in ITALIAN for the 12-week course; 8 in JAPANESE for the 12-week course; 8 in KOREAN for the 16-week course, 15 for the 24-week course; 8 in PERSIAN for the 12-week course, 15 for the 24-week course; 8 in PORTUGUESE for the 11- or 12-week course; 8 in ROMANIAN for the 12-week course; 8 in SPANISH for the 11- or 12-week course; 8 in THAI for the 12-week course, 10 for the 16-week course, and 15 for the 24-week course; 8 in TURKISH for the 12-week course; 3 in VIETNAMESE—SAIGON DIALECT for the 6-week course, 8 for the 8- or 12-week course, 10 for the 16-week course, 15 for the 32-week course (8/74). NOTE: The credit recommended for these programs is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with the level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0005

Defense Language Institute Extended or Basic-Intermediate Courses

(Chinese—Mandarin)
(German)
(Japanese)
(Korean)
(Russian)
(Vietnamese)

Course Number: None.

Location: West Coast Branch, Presidio of Monterey, CA.

Length: 24–75 weeks.

Exhibit Dates: 1/54–Present.

Objectives: To train military personnel to a higher level of proficiency in the interpretation and translation of the designated language than is provided for in the scope of instruction of the Basic Courses and to provide, in the language, a somewhat wider knowledge of military, geographic, economic, historic, and political information of the country and/or area in which the language is spoken.

Instruction: BASIC-INTERMEDIATE COURSES: The designation "basic-intermediate" given by the military to the courses should not be confused with this term as used by civilian educational institutions. The Commission's consultants recommend as much as 40 semester hours for each course because of the material that the students are required to read and, in some cases, because of the characters to be learned and the level of the syntax. However, it is recognized that most civilian educational institutions would be reluctant to grant the full amount of credit recommended for the 74- to 75-week courses inasmuch as this would constitute a major in the language. It is further recognized that most colleges and universities would require some resident work in a major. Nevertheless, it was the consensus of the consultants that these programs correspond to college courses 'directed to mastery of the language." In other words, the courses are the equivalent of beginning, intermediate, and advanced courses in the language, plus composition, advanced composition (i.e., learning to write correctly), conversation, and a semester's course in the civilization of the appropriate country or area. It should be noted that no creative writing or literature is given in these programs. EXTENDED COURSES: These courses, which range from 24–37 weeks in length, are attended by students who have already completed a Basic or Aural Comprehension course. The primary objective of this add-on training is to improve language competency. Whereas in the Basic course the audio-lingual skills were stressed, equal emphasis is put on all four language skills in the Extended Course. Pronunciation is expected to undergo considerable refinement, as is the size of the student's vocabulary. Fluency in reading is developed to the point of direct comprehension of the printed page. Proficiency in writing includes mastery of forms, such as official, business, and social correspondence. Equal in importance to language competency is the matter of area knowledge. The Extended Course treats in considerable depth all facets of the country's contemporary civilization, together with a study of the historical development of the area.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 40 semester hours in CHINESE—MANDARIN for the 74- to 75-week course; 15 in GERMAN for the 24-week course; 40 in JAPANESE for the 74- to 75-week course; 40 in KOREAN for the 74-75 week course; 18 in KOREAN for course, 40 for the 74- to 75-week course; 40 in VIETNAMESE for the 74-week course (8/74). In the graduate category, 6 semester hours in CHINESE—MANDARIN for the 74- to 75-week course; 6 in JAPANESE for the 74- to 75-week course; 6 in KOREAN for the 74- to 75-week course; 6 in RUSSIAN for the 74- to 75-week course; 6 in VIETNAMESE for the 74- to 75-week course (8/74). NOTE: The credit recommended for the programs is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean). the 37-week course; 18 in RUSSIAN for the 37-week

DD-0602-0006

DEFENSE LANGUAGE INSTITUTE INTERMEDIATE COURSES

(Arabic)
(Bulgarian)
(Chinese—Mandarin)
(Czech)
(French)
(German)
(Korean)
(Polish)
(Romanian)
(Russian)
(Serbo-Croatian)
(Spanish)
(Vietnamese)

Course Number: None.
Location: West Coast Branch, Presidio of Monterey, CA.
Length: 16–37 weeks.
Exhibit Dates: 1/54–Present.

Objectives: The Intermediate Courses at the West Coast Branch are a continuation of the Basic Courses with the objective of reaching a higher level of general language ability in all four language skills.

Instruction: Whereas in the Basic Course the audio-lingual skills were stressed, equal emphasis is put on all four language skills in the Intermediate Course. Pronounciation will undergo refinement through constant practice. All important structures are presumed to have been learned in the Basic Course; however, an extensive review is programmed, and new structures are taught functionally, as needed in dealing with the course content. Vocabulary count, customary indicator of the scope of a course, will increase rapidly and extensively. Active vocabulary is expected to double, and passive vocabulary to expand considerably. Fluency in reading is developed to the point of direct comprehension of the printed page. Proficiency in writing includes mastery of forms, such as official business, and social correspondence. Equal in importance to language competency is the matter of area knowledge. The Intermediate Course purports to treat in considerable depth all facets of the country's contemporary civilization, together with a study of the historical development of the area.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 18 semester hours in ARABIC for the 37-week course; 18 in BULGARIAN for the 37-week course; 18 in CHINESE—MANDARIN for the 37-week course; 18 in CZECH for the 36-week course; 10 in FRENCH for the 16-week course; 9 in GERMAN for the 24-week course; 18 in KOREAN for the 24-week course; 18 in POLISH for the 36-week course; 15 in ROMANIAN for the 24-week course; 18 in RUSSIAN for the 37-week course; 18 in SERBO-CROATIAN for the 37-week course; 15 in SPANISH for the 24-week course; 18 in VIETNAMESE for the 37-week course (8/74). In the graduate degree category, 6 semester hours in CHINESE—MANDARIN for the 37-week course; 6 in KOREAN for the 37-week course (8/74). NOTE: The credit recommended for the programs is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0007

DEFENSE LANGUAGE INSTITUTE ADVANCED COURSES

(Chinese—Mandarin)
(Russian)

Course Number: None.
Location: West Coast Branch, Presidio of Monterey, CA.
Length: 37 weeks.
Exhibit Dates: 1/69–Present.

Objectives: To train selected Department of Defense personnel in foreign languages at a more advanced level of proficiency than is provided in Defense Language Institute Extended or Intermediate Courses; and to provide a wide knowledge of cultural, geographical, economic, historical, and political information on the area in which the language is spoken.

Instruction: The advanced course places equal emphasis upon the development of all four language skills. There is no specialized or technical terminology in the course. It includes a total vocabulary of approximately 4,000 terms, over and above that covered in previous courses, that cover all general, nontechnical communication situations that one would normally encounter in the country of the target language. The cultural complex within which the language is spoken is covered extensively: history, economics, geography, politics, military, ethnic groups, languages, attitudes, customs and mores of the people, etc.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 18 semester hours in CHINESE—MANDARIN for the 37-week course; 18 in RUSSIAN for the 37-week course (8/74). NOTE: The credit recommended for the programs is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0008

DEFENSE LANGUAGE INSTITUTE SPECIAL COURSES

(Scientific Russian)
(Russian Refresher)

Course Number: None.
Location: West Coast Branch, Presidio of Monterey, CA.
Length: 6–12 weeks.
Exhibit Dates: 1/54–Present.

Objectives: The objective of the Scientific Course is to train military personnel to read and translate Russian technical and scientific publications and to speak and understand conversational Russian to a limited extent; the Refresher Course is designed to enable personnel to regain a basic competence in comprehension of the standard literary language.

Instruction: The Scientific Course includes instruction in Russian phonology and writing systems; oral exercises in elementary speech patterns; Russian structural patterns; reading practice; problems in lexicology; identification of Russian words and cognates; and scientific terminology. The Refresher Course provides an accelerated, systematic review of grammar and vocabulary.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, or in the upper-division baccalaureate category, credit in scientific Russian or Russian (refresher) on the basis of institutional evaluation (8/74).

DD-0602-0009

DEFENSE LANGUAGE INSTITUTE COURSES—EAST COAST BRANCH
(Arabic)
(Chinese—Mandarin)
(French)
(German)
(Italian)
(Portuguese)
(Russian)
(Spanish)
(Turkish)
(Vietnamese—Hanoi Dialect)
(Vietnamese—Saigon Dialect)

Course Number: None.

Location: East Coast Branch, Washington, DC.

Length: 8–60 weeks.

Exhibit Dates: 1/54–Present.

Objectives: The Intensive Courses are designed to make military personnel thoroughly at ease in the speaking, understanding, reading, and writing of a foreign language; the shorter courses are designed to give students a limited command of the language.

Instruction: Lectures, discussions, and oral drills in the speaking, understanding, reading, and writing of a foreign language, with additional training in area studies, including the geography, history, politics, economics, government, social structure, and military situations pertaining to the area.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 18 semester hours in ARABIC for the 40-week course, 27 for the 47-week course (21 semester hours if the course was taken prior to 1970); 27 in CHINESE—MANDARIN for the 47-week course, 30 for the 60-week course, 18 for the special 9-month course; 4 in FRENCH for the 8-week course, 8 for the 1[illegible]-week course, 12 for the 19-week course, 1[illegible] for the 24-week course; 4 in GERMAN for the 8-week course, 8 for the 12-week course, 17 for the 32-week course (15 semester hours if the course was taken prior to 1970), 18 for the 36-week course; 4 in ITALIAN for the 8-week course, 8 for the 12-week course, 15 for the 24-week course; 4 in PORTUGUESE for the 8-week course, 8 for the 12-week course, 12 for the 21-week course, 15 for the 24-week course; 18 in RUSSIAN for the 36-week course, 21 for 47-week course, 15 for the special 6-month course; 4 in SPANISH for the 8-week course, 8 for the 12-week course, 12 for the 19-week course, 15 for the 24-week course; 18 in TURKISH for the 36-week course, 21 for the 47-week course; 18 in VIETNAMESE—HANOI DIALECT for the 36-week course; 18 in VIETNAMESE—SAIGON DIALECT for the 36-week course, 21 for the 47-week course (8/74). In the graduate degree category, 3 semester hours in CHINESE—MANDARIN for the 60-week course (8/74). NOTE: The credit recommended for the programs is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with the level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0010

DEFENSE LANGUAGE INSTITUTE SUPPORT COMMAND COURSES
(Basic Vietnamese—Saigon Dialect)
(Aural Comprehension Vietnamese—Hanoi Dialect)
(Short Basic Vietnamese—Saigon Dialect)

Course Number: None.

Location: Biggs Field, El Paso, TX.

Length: 12–47 weeks.

Exhibit Dates: 1/54–Present.

Objectives: The Basic Course provides personnel with training in the interpretation and translation of the designated language, as well as basic military, geographic, economic, historical, and political information about the area in which the language is spoken; the Aural Comprehension Course is designed primarily to teach students to comprehend the language as spoken by a foreign national; the Short Basic Course is an accelerated version of the Basic Course.

Instruction: Lectures, discussions, and oral drills in the designated language. Basic Course: The term, 'Basic' as used by the military, indicates a 'regular' course in the language; i.e., the Basic Course is not limited to what most civilian institutions would term beginning or basic courses in the language. Aural Comprehension Course: Although some reading and writing is included, the spoken language is emphasized. Since the Aural Comprehension Courses do not place equal stress on the four language skills, they are recommended for less credit than the Basic Courses. Short Basic Course: Intensive training in the same material covered in the Basic Course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 21 semester hours in VIETNAMESE—SAIGON DIALECT for the 47-week BASIC course, 8 for the 12-week SHORT BASIC course, 15 for the 32-week SHORT BASIC course; 18 in VIETNAMESE—HANOI DIALECT for the 47-week AURAL COMPREHENSION course (8/74).

DD-0602-0011

NATIONAL CRYPTOLOGIC SCHOOL RESIDENT LANGUAGE COURSES
(Basic Chinese—Refresher)
(Basic Russian—Refresher)
(Basic Vietnamese)

Course Number: None.

Location: National Cryptologic School, Ft. Meade, MD.

Length: 21–30 weeks.

Exhibit Dates: 1/54–Present.

Objectives: The 12-week Refresher courses are designed to enable personnel to regain a basic competence in comprehension of the standard literary language by an accelerated, systematic review of grammar and vocabulary. (A basic course in the language is assumed as a prerequisite); the 30-week Basic Vietnamese course is designed to teach personnel the grammar and vocabulary necessary for a basic comprehension of the standard literary language with emphasis on a thorough understanding of structure.

Instruction: Refresher Courses: Phonology; writing system; basic vocabulary of economic, political, and military terms. Basic Vietnamese: In addition to the preceding instruction, this course includes grammar (morphology, derivation, and syntax).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 6 semester hours in CHINESE for the 12-week basic (refresher) course; 3 in RUSSIAN for the 12-week basic (refresher) course; 15 in Vietnamese for the 30-week basic course (8/74).

DD-1402-0001

COMMAND AND CONTROL

Course Number: None.

Location: Department of Defense Computer Institute, Washington, DC.

Length: 3 weeks (105 hours).

Exhibit Dates: 5/69–Present.

Objectives: To provide personnel with an introduction to automatic data processing and computer technology.

Instruction: Lectures and practical exercises in automatic data processing and computer technology, including survey of computers and peripheral equipment, computer fundamentals, source data collection, data communications, systems analysis, main memory and data representation, codes, fixed-word-length machine concepts, higher-level languages, and ADP system management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in principles of data processing (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74); in the upper-division baccalaureate category, 2 semester hours in introduction to computer principles (12/68).

DD-1402-0002

INTRODUCTION TO COMPUTER TECHNOLOGY

Course Number: None.

Location: Department of Defense Computer Institute, Washington, DC.

Length: 2 weeks (65 hours).

Exhibit Dates: 8/77–Present.

Objectives: Course is designed to provide an educational background for middle-management personnel who are general-purpose digital computer systems users and have had little or no previous introduction to data processing principles.

Instruction: Course covers computer capabilities, limitations and applications; the basics of computer hardware and software; systems development management considerations, planning and design; and an introduction to operations research and analysis electro-optics applications or electromechanical applications, 1 in technical mathematics, and 1 in semiconductor theory and applications, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 3 in basic electronics laboratory applications. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electronics laboratory applications, and 3 in human relations for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electronics laboratory applications, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) (3/76).

MOS–35E–002

SPECIAL ELECTRONIC DEVICES REPAIRER

35E10
35E20
35E30

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications–Electronics Maintenance).

Description

Summary: Performs complex maintenance procedures on specialized electrical and electronic measuring equipment. *Skill Level 10:* Assists with maintenance of electro-optical vision equipment and detection equipment; applies schematic tracing skills and basic electronic theory in troubleshooting malfunctions; performs repairs, replacement, or modifications in compliance with technical manuals; uses specialized tools and test equipment in diagnosing symptoms and in locating problems in circuits down to discrete electrical components; regularly updates maintenance manuals, records and supply stock. Examines, tests, and observes equipment in operation to determine defects; localizes and determines cause of malfunctions; removes and replaces faulty major components, subassemblies and individual parts; uses test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; troubleshoots and repairs faulty equipment; observes and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required by Skill Level 20; supervises maintenance on special electrical devices equipment; maintains records, references and reports; prepares technical reports; provides assistance; gives direction and instructions in resolving complex maintenance problems; diagnoses causes of unusual malfunctions; may supervise six or more persons.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 9 semester hours in basic electronics, 3 in industrial electronics instrumentation, 3 in electro-optics applications or electromechanical applications, 1 in technical mathematics, and 1 in semiconductor theory, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 3 in basic electronics laboratory application. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in basic electronics, 3 in industrial electronics instrumentation, 3 in electro-optics applications or electromechanical applications, 1 in technical mathematics, 1 in semiconductor theory, and 2 in technical report writing, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electronics laboratory, and 3 in personnel supervision for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) (10/79).

MOS–35F–001

NUCLEAR WEAPONS ELECTRONICS SPECIALIST

35F10
35F20

Exhibit Dates: 3/76–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Performs maintenance on highly specialized electronic equipment associated with nuclear weapons and nuclear weapons trainers. *Skill Level 10:* Under close supervision of 35F20 personnel, assists in performing maintenance functions using multimeters and electronic hand tools. *Skill Level 20:* Performs maintenance, diagnoses malfunctions, replaces defective parts, and test-operates repaired equipment; uses multimeters, oscilloscopes, and electrical/electronic hand tools; interprets schematic diagrams and technical publications; keeps records of work performed.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in basic electricity and 1 in care and use of tools and test equipment. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity, 2 in electrical/electronic troubleshooting, 2 in electrical/electronic maintenance, and 1 in care and use of tools and test equipment for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical/electronic maintenance and 1 in basic electricity. Advanced standing in an electrical maintenance apprentice training program on the basis of employer or trade association performance examination (6/76).

MOS–35G–001

BIOMEDICAL EQUIPMENT REPAIRMAN (MEDICAL EQUIPMENT REPAIRMAN)

35G20

Exhibit Dates: 10/74–2/78.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Performs routine maintenance on non-complex medical equipment, including electrical-electronic, mechanical, and optical equipment; repairs and installs mechanical medical equipment including sterilizers, stills, anesthesia apparatus, resuscitators, dental operating units, operating tables and lamps, food carts, hospital beds, etc.; dismantles and cleans equipment; checks for wear and repairs simple mechanical and electrical defects; installs water, air, and steam lines and tests for leakage and fit; uses volt-ohm-milliameter.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in medical equipment maintenance, 2 in shop operations (procedures), and 1 in basic electricity laboratory, for a total of 5 semester hours (5/76).

MOS–35G–002

BIOMEDICAL EQUIPMENT REPAIRER

35G10
35G20

Exhibit Dates: 3/78–Present.

Career Management Field: 91 (Medical), *subfield* 915 (Biomedical Equipment Repair).

Description

Summary: Performs routine maintenance on non-complex medical equipment. *Skill Level 10:* Performs routine maintenance on electrical-electronic, mechanical, and optical equipment; repairs and installs mechanical medical equipment, including sterilizers, stills, anesthesia apparatus, resuscitators, dental operating units, operating tables and lamps, food carts, hospital beds, etc.; dismantles and cleans equipment; installs water, air, and steam lines; performs routine tests on medical equipment to determine leakage currents and calibration. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in DC and AC circuit fundamentals, 6 in theory of operation and troubleshooting medical equipment, and 2 in shop practices, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in medical equipment maintenance and repair and 2 in shop practices (11/79).

MOS–35H–001

CALIBRATION SPECIALIST

35H20
35H40
35H50

Exhibit Dates: 10/73–2/75.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs complex calibration procedures at secondary reference or transfer reference level on electrical, electronic, pressure, vacuum, hydraulic, and mechanical test and measuring instruments and devices; performs linear measurements in all aspects of metrology; compares standards of measurement and references; performs minor electronic maintenance; checks and evaluates condition of equipment. *Skill Level 20:* Calibrates transfer standards to reference standards; checks and adjusts secondary standards for calibration against primary standards; calibrates test and system support equipment within design accuracy; computes voltage, current, and resistance factors; evaluates condition of test and measuring equipment and makes minor repairs. *Skill Level 40:* Able to perform the duties required for Skill Level 20; competent in error analysis; diagnoses unusual malfunctions of sophisticated equipment; performs complex calibration procedures; plans calibration loops and performs final check-out operations in closing calibration loops; recognizes and adheres to standards of accuracy to which secondary reference standards must be certified; teaches subordinates how to use and interpret calibration procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a first-line supervisor; interprets and initiates changes in company policies; directs and coordinates the administrative activities of the company; supervises subordinates; conducts on-the-job training. NOTE: May have progressed to 35H50 from 35H40, 35B40 (Electronic Instrument Repairman), 35E40 (Special Electrical Devices Repairman), 35U50 (Biomedical Equipment Maintenance Chief), or 35P50 (Avionic Equipment Maintenance Supervisor).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic algebra and trigonometry, 6 in fundamentals of DC and AC electrical circuits, 6 in basic electronics with laboratory, 6 in communication electronics with laboratory, 6 in electronic instrumentation with laboratory, and 6 in laboratory techniques, and additional credit on the basis of institutional evaluation, for a minimum total of 36 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic algebra and trigonometry, 3 in fundamentals of DC and AC electrical circuits, 3 in basic electronics with laboratory, 3 in communication electronics with laboratory, 3 in electronic instrumentation with laboratory, and 3 in laboratory techniques, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours in industrial arts or technical electives and additional credit on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

Recommendation, Skill Level 40

The recommendation for educational credit is the same as that for Skill Level 20. In an electrical instrumentation repairman (communications) apprentice training program, 5,000 clock hours of experience and 360 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in basic algebra and trigonometry, 6 in fundamentals of DC and AC electrical circuits, 6 in basic electronics with laboratory, 6 in communications electronics with laboratory, 6 in electronic instrumentation with laboratory, 6 in laboratory techniques, and 3 in office management, and additional credit on the basis of institutional evaluation, for a minimum total of 39 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic algebra and trigonometry, 3 in fundamentals of DC and AC electrical circuits, 3 in basic electronics with laboratory, 3 in communication electronics with laboratory, 3 in electronic instrumentation with laboratory, 3 in laboratory techniques, 3 in personnel supervision, and 3 in office management, for a total of 24 semester hours. In the upper-division baccalaureate category, 6 semester hours in industrial arts or technical electives, 3 in personnel management, and 3 for field experience in management or administration, and additional credit in technical areas on the basis of institutional evaluation, for a total of 12 semester hours; and 3 additional semester hours for field experience in education *only if the duty assignment was chief instructor*, for a total of 15 semester hours. In an electronic instrumentation repairman (communications) apprentice training program, 5,000 clock hours of experience and 360 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS-35H-002

CALIBRATION SPECIALIST

35H20
35H30
35H40
35H50

Exhibit Dates: 3/75-2/78.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs complex calibration procedures at secondary reference or transfer reference level on electrical, electronic, pressure, vacuum, hydraulic, and mechanical test and measuring instruments and devices; performs linear measurements in all aspects of metrology; compares standards of measurement and references; performs minor electronic maintenance; checks and evaluates condition of equipment. *Skill Level 20:* Applies knowledge of operational characteristics of test, measurement, and diagnostic equipment; performs calibration of electronic equipment using secondary transfer standards; must be capable of performing calibrations in all transfer level parameters or measurement, including AC voltage and current, DC voltage and current, resistance, capacitance, inductance, frequency, time interval, rise time, RF power frequency response, distortion, phase, standing wave ratio, attenuation, magnetic field strength, photometric brightness, irradiance, sound pressure, relative humidity, temperature, viscosity, specific gravity, length, gas and liquid flow, mass torque, vacuum, hydraulic pressure, and pneumatic pressure; prepares and affixes calibration certificates, tags, labels, and correction charts; recommends changes to calibration procedures and other technical publications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs calibrations using more sophisticated techniques and standards to obtain a much greater degree of precision and accuracy; operates secondary reference standards in a controlled environment and determines specific effect on the measurement process; calibrates all secondary reference standards; prepares technical reports and charts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs check-out operations in closing calibration loop; diagnoses and determines causes of unusual cases of malfunction or nonfunction of electrical and electronic devices; supervises or executes installation and location of equipment; instructs, explains, and interprets technical literature, schematics, specifications, and calibration procedures; organizes technical operations for calibration teams; operates a quality control and production control program for calibration operations and calibration equipment repair. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a first-line supervisor in a calibration laboratory or facility; plans, coordinates, and supervises activities pertaining to training and technical operation of the facility to which assigned; develops and reviews correspondence relating to calibration activities; coordinates the efforts of the technical support elements of a calibration activity in support of the calibration laboratory and teams; prepares interservice/intraservice agreements relative to calibration support. NOTE: May have progressed to 35H50 from 35H40, 35B40 (Electronic Instrument Repairman), 35E40 (Special Electrical Devices Repairman), 35U50 (Biomedical Equipment Maintenance Chief), or 35P50 (Avionic Equipment Maintenance Supervisor).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in electronic instrumentation with laboratory, 6 in basic electronics with laboratory, 5 in technical mathematics, 2 in DC circuit theory, 2 in DC circuit laboratory, 2 in AC circuit theory, and 2 in AC circuit laboratory, for a total of 28 semester hours. In the upper-division baccalaureate category, 3 semester hours in electronic instrumentation fundamentals and 3 in industrial arts education (electronics). In the graduate degree category, credit in instrumentation techniques on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in electronic instrumentation with laboratory, 6 in basic electronics with laboratory, 5 in technical mathematics, 3 in laboratory techniques, 2 in technical writing, 2 in DC circuit theory, 2 in DC circuit laboratory, 2 in AC circuit theory, 2 in AC circuit laboratory, for a total of 33 semester hours. In the upper-division baccalaureate category, 3 semester hours in electronic instrumentation fundamentals and 3 in industrial arts education (electronics). In the graduate degree category, credit in instrumentation techniques on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/76).

Recommendation, Skill Levels 40 and 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in electronic instrumentation with laboratory, 6 in basic electronics with laboratory, 5 in technical mathematics, 3 in laboratory techniques, 3 in personnel supervision, 3 in human relations, 2 in technical writing, 2 in DC circuit theory, 2 in DC circuit laboratory, 2 in AC circuit theory, and 2 in AC circuit laboratory, for a total of 39 semester hours. In the upper-division baccalaureate category, 6 semester hours in technical electives, 3 in electronic instrumentation fundamentals, and 3 in industrial arts education (electronics), for a total of 12 semester hours. In the graduate degree category, credit in instrumentation techniques on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 5,000 clock hours of experience and 360 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/76).

MOS-35H-003

Calibration Specialist

35H10
35H20
35H30
35H40
35H50

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Performs calibration and repair duties on all common test, measuring, and diagnostic equipment; performs maintenance on all calibration standards and accessories; performs maintenance on electrical, electronic, pressure, vacuum, hydraulic, and mechanical measuring instruments. *Skill Level 10:* Calibrates and repairs tests, measuring, and diagnostic equipment, including meters and other low-level systems; maintains calibration and maintenance records; assists with more advanced repair and calibration procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; performs cross-check of low-level calibration standards; maintains records applicable to these and other calibration and maintenance functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides direct supervision, quality control, technical support and coordination of unit activities; supervises on-the-job training; supervises a calibration team and prepares their work schedule; performs calibration using more sophisticated and accurate standards including the following: flow rate, viscosity, specific gravity, phase, sound pressure level, irradiance, photometric, brightness, magnetic field strength, etc.; performs cross-checks of reference standards and maintains standard levels. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and provides on-the-job training to lower skill level personnel; maintains calibration files to provide historical, production, and scheduling information for control of operations; conducts liaison with supported units to schedule production advice on test, measuring, and diagnostic equipment; provides quality control by sample inspection against standards; previews correspondence and prepares interservice agreements relative to calibration support; establishes schedules; supervises the development and presentation of new equipment and technology training; may supervise four or more personnel, or if duty position is Calibration Operations NCO, may supervise five or more calibration teams. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as principal noncommissioned officer of a calibration facility, performs technical and administrative duties; plans, coordinates, and supervises training and operation activities; prepares correspondence; advises superiors on technical calibration matters; may supervise five or more calibration teams.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in AC/DC circuits, 1 in digital circuits, 1 in solid-state circuits, 1 in communications principles, 2 in instrumentation, 3 in troubleshooting techniques, 2 in physics, and 2 in mathematics (algebra and trigonometry), for a total of 17 semester hours (5/79).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid-state circuits, 2 in communications principles, 4 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), and 3 in microwave circuits, for a total of 31 semester hours (5/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid-state circuits, 2 in communications principles, 5 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), 3 in microwave circuits, 2 in human relations, 2 in personnel supervision, and 2 in maintenance management, for a total of 38 semester hours (5/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid-state circuits, 2 in communications principles, 5 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), 3 in microwave circuits, 3 in human relations, 3 in personnel supervision, and 2 in maintenance management, for a total of 40 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management; *if duty position was Calibration Operations NCO,* an additional 3 semester hours in management problems (5/79).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid-state circuits, 2 in communications principles, 5 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), 3 in microwave circuits, 3 in human relations, 3 in personnel supervision, and 3 in maintenance management, for a total of 41 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, and 3 in management problems (5/79).

MOS-35J-001

Aircraft Fire Control Repairman

35J20
35J40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 35J was discontinued and its functions were incorporated into MOS 68J, Helicopter Missile Systems Repairer, and MOS 68K, Aircraft Components Repair Supervisor.) Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs support maintenance on optical electrical/electronic components of aircraft armament subsystems, printed cards, and systems peculiar to electronic test equipment for all aircraft armament subsystems. *Skill Level 20:* Performs support maintenance on aircraft fire control equipment; interprets electrical/electronic schematics and systems diagrams; employs standard and systems peculiar test equipment to troubleshoot and isolate malfunctions; replaces or adjusts faulty components; performs final checkout; performs support maintenance on test equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 5 or more persons performing maintenance on electrical/electronic aircraft armament fire control subsystems.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in basic electricity. In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity and 2 in personnel supervision (11/75).

MOS-35K-001

Avionics Mechanic

35K20

Exhibit Dates: 10/73–8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs duties comparable to those of a Federal Communications Commission Second Class licensee; troubleshoots and maintains communications, navigation, and flight control systems, and on-board avionics equipment; isolates equipment malfunctions to the component level; reads and interprets electronic circuit diagrams and schematics; plans and schedules maintenance checks; performs maintenance on special and common hand tools and on test, calibration, diagnostic, and support equipment.

Recommendation

In the vocational certificate category, 3 semester hours in electrical and electronic print reading, 4 in avionics maintenance, and 1 in aviation maintenance technology, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical and electronic print reading and 4 in electronics maintenance or avionics technology, for a total of 7 semester hours. In the upper-division baccalaureate category, 4 semester hours in aviation maintenance management or aviation maintenance engineering technology (2/75).

MOS-35K-002

Avionic Mechanic

35K10

35K20

Exhibit Dates: 9/77-Present.

Career Management Field: 28 (Aviation Communications-Electronics).

Description

Summary: Performs duties comparable to those of a Federal Communications Commission Second Class licensee; performs maintenance on communications, navigation, and flight control systems, and onboard avionics equipment. *Skill Level 10:* Troubleshoots and isolates equipment malfunctions to the component level; reads and interprets electronic circuit diagrams and schematics; plans and schedules maintenance checks; performs maintenance on special and common hand tools and on test, calibration, diagnostic, and support equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electrical and electronic print reading, 4 in avionics maintenance, and 1 in aviation maintenance technology, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical and electronic print reading and 4 in electronics maintenance or avionics technology (5/78).

Recommendation, Skill Level 20

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In the upper-division baccalaureate category, 4 semester hours in aviation maintenance management (5/78).

MOS-35L-001

Avionic Communications Equipment
Repairman

35L20

Exhibit Dates: 10/73-8/77.

Career Management Field: 35 (Electrical/Electronic Equipment Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs highly complex maintenance procedures on transistorized and vacuum tube avionic radio communications equipment; uses knowledge in basic electronics and schematic tracing to troubleshoot equipment; uses specialized hand tools and test equipment to perform diagnostic tests of malfunctions down to discrete circuit components; tests, aligns, and adjusts equipment to insure maximum operating efficiency; replaces parts, performs repairs, or modifies equipment in compliance with technical manuals and modification orders; assists in the updating of maintenance manuals, records, and supply stock; assists in on-the-job training.

Recommendation

In the vocational certificate category, 3 semester hours in basic AC and DC theory, 3 in basic AC and DC laboratory applications, 3 in radio communications theory, 3 in radio communications laboratory, 3 in transmitter/receiver repair, 1 in elementary algebra, 1 in basic amplifier circuit theory, and 1 in instrument applications laboratory, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in radio communications theory, 3 in introductory electronics, 1 in basic DC circuit theory, 1 in basic AC circuit theory, 1 in semiconductor theory, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in technical electives. In an electrician apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

MOS-35L-002

Avionic Communications Equipment
Repairer

35L10

35L20

Exhibit Dates: 9/77-Present.

Career Management Field: 28 (Aviation Communications-Electronics).

Description

Summary: Performs duties comparable to those of a Federal Communications Commission Second Class licensee; performs maintenance on avionic communications equipment. *Skill Level 10:* Troubleshoots and isolates equipment malfunctions to the component level; reads and interprets electronic circuit diagrams and schematics; plans and schedules maintenance checks; performs maintenance on special and common hand tools and on test, calibration, diagnostic, and support equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; repairs faulty printed circuit boards; maintains equipment records, authorized spare parts, supply stock, and technical literature.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electrical and electronic print reading, 4 in avionics maintenance, and 1 in aviation maintenance technology, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical and electronic print reading and 4 in electronics maintenance or avionics technology (5/78).

Recommendation, Skill Level 20

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In the upper-division baccalaureate category, 4 semester hours in aviation maintenance management (5/78).

MOS-35M-001

Avionic Navigation Equipment
Repairman

35M20

Exhibit Dates: 10/73-8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs preventive maintenance and repair to the component level on such items as marker beacons, radio direction finders, VOR and glidescopes, omnirange receivers, position fixers, airborne TACAN and ground beacons; locates and diagnoses causes of equipment malfunction or nonfunction with common and specialized handtools and test equipment; determines repair procedures; interprets schematic diagrams and technical literature; traces circuitry; tests, aligns, and adjusts equipment to insure maximum operating efficiency; replaces faulty assemblies and components; test-operates repaired equipment for proper functioning; alters or modifies equipment using prescribed procedures; performs preventive maintenance on tools and test equipment; inspects completed work for accuracy and completeness; keeps maintenance records and completes supply forms.

Recommendation

In the vocational certificate category, 6 semester hours in basic electronics, 6 in avionic instrumentation, 3 in basic AC/DC theory, 3 in basic AC/DC laboratory applications, 2 in systems maintenance and repair, and 1 in elementary algebra, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 2 in electronic systems, 1 in DC circuit analysis, 1 in AC circuit analysis, 1 in electron devices, 1 in instrumentation, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in technical electives. In an electrician apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

MOS-35M-002

Avionic Navigation and Flight Control Equipment Repairer

35M10

35M20

Exhibit Dates: 9/77–Present.

Career Management Field: 28 (Aviation Communications-Electronics).

Description

Summary: Performs preventive maintenance on avionic navigation and flight control equipment, including marker beacons, radio direction finders, VOR and glidescope receivers, automatic flight control, stability augmentation, automatic stabilization, radar altimeter, aircraft magnetic compass and altitude-heading equipment. *Skill Level 10:* Localizes and diagnoses causes of equipment malfunction or nonfunction with common and specialized hand tools and test equipment; replaces fuses, burned-out lamps, test equipment batteries, worn cords, cables, and other faulty components or individual parts; traces circuitry, tests, aligns, and adjusts equipment to insure maximum operating efficiency; test-operates repaired equipment for proper functioning; alters or modifies material in accordance with modification work orders and prescribed procedures; schedules and performs operator maintenance on tools and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; repairs faulty printed circuit boards; maintains equipment records, authorized spare parts, supply stock, and technical literature.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in basic electronics, 6 in avionic instrumentation, 3 in basic AC/DC electronics theory, 3 in basic AC/DC electronics lab applications, and 2 in systems maintenance and repair, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 1 in DC circuit analysis, 1 in AC circuit analysis, 2 in electronic systems, 1 in electronic devices, 1 in instrumentation, and credit in technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours for a technical elective (5/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In the upper-division baccalaureate category, 3 semester hours for a technical elective and 4 in aviation maintenance management (5/78).

MOS-35N-001

Avionic Flight Control Equipment Repairman

35N20

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 35N was discontinued and its functions were incorporated into MOS 35M, Avionic Navigation and Flight Control Equipment Repairer, or MOS 35P, Avionic Equipment Maintenance Supervisor.)

Career Management Field: 35 (Electrical/Electronic Equipment Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs complex maintenance procedures on avionic flight systems, such as automatic flight control, stability augmentation, aircraft magnetic compass, and computer-assist navigational equipment: troubleshoots equipment using concepts in basic electronics, electromechanical devices, and schematic tracing; uses specialized handtools and test equipment to perform diagnostic tests of malfunctions down to discrete circuit components; tests, aligns, and adjusts equipment to insure maximum operating efficiency; replaces parts and performs repairs or modifications on equipment in accordance with specified standards; assists in the updating of maintenance manuals, records, and supply stock; assists in on-the-job training.

Recommendation

In the vocational certificate category, 3 semester hours in basic electronics, 3 in radio frequency circuit analysis, 3 in radio frequency circuit laboratory applications, 3 in basic AC/DC theory, 3 in basic AC/DC laboratory applications, 2 in electromechanical systems, 1 in elementary algebra, 1 in basic amplifier circuit concepts, and 1 in instrument applications laboratory, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics theory, 3 in basic electronics laboratory applications, 2 in electronic circuits and systems, 1 in elementary algebra, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) or in technical electives. In an electrician apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

MOS-35P-001

Avionic Equipment Maintenance Supervisor

35P40

35P50

Exhibit Dates: 10/73–8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Summary: Supervises the maintenance of avionic equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20 of at least one of the following MOS's: 35K (Avionics Mechanic), 35L (Avionic Communications Equipment Repairman), 35M (Avionic Navigation Equipment Repairman), 35N (Avionic Flight Control Equipment Repairman), 35R (Avionic Radar Equipment Repairman); assists in the diagnosis of complex malfunctions; inspects and checks maintenance work for adequacy and suitability; implements quality and production control procedures; assigns duties to personnel; instructs in maintenance practices, procedures, and techniques; conducts on-the-job training; assists in complex equipment modification. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises, administers, and coordinates all avionic maintenance activities for 30 or more mechanics and repairmen; plans and schedules maintenance; keeps equipment records; requisitions spare parts and supplies; reviews and takes appropriate action on all technical information and directives; provides technical advice.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in maintenance supervision and 3 in advanced electronics systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communication devices, 3 in personnel supervision, and 3 in human relations, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 50

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in shop management, and 3 in introduction to management, for a total of 12 semester hours (3/76).

MOS-35P-002

Avionic Equipment Maintenance Supervisor

35P30

35P40

35P50

Exhibit Dates: 9/77–Present.

Career Management Field: 28 (Aviation Communications-Electronics).

Description

Summary: Supervises maintenance of aviation communications equipment and electrical/electronic systems equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20 of at least one of the following MOS's: 35K (Avionic Mechanic), 35L (Avionic Communications Equipment Repairer), 35M (Avionic Navigation/Flight Control Equipment Repairer), or 35R (Avionic Special Equipment Repairer); assists in the diagnosis of complex malfunctions; inspects and checks maintenance work for adequacy; implements quality and production control procedures; assigns duties to personnel; instructs in maintenance practices, procedures, and techniques; conducts on-the-job training; assists in complex equipment modifications; supervises from 5-10 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30 of at least one of the following MOS's: 35P, 26D (Ground Control Approach Radar Repairer), 26E (Aerial Surveillance Sensor Repairer), 26K (Aerial Electronic Warning/Defense Equipment Repairer), or 26M (Aerial Surveillance Radar Repairer); supervises, administers and coordinates aviation communications and electrical/electronic systems equipment maintenance activities. Plans and schedules maintenance; supervises the maintenance of equipment records and the requisition of spare parts and supplies; supervises from 8-29 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises, administers, and coordinates all avionic maintenance activities for 30 or more mechanics and repairers; assists in preparation of plans, policies, and procedures for maintenance operations; applies production, quality control and other maintenance management principles and procedures.

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in advanced electronics systems, and 3 in maintenance supervision. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications, 3 in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in shop management, and 3 in introduction to management, for a total of 9 semester hours (5/78).

Recommendation, Skill Levels 40 and 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in shop management, and 3 in introduction to management, for a total of 12 semester hours (5/78).

MOS-35R-001

Avionic Radar Equipment Repairman

35R20

Exhibit Dates: 10/73-8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Inspects, tests, and performs preventive maintenance and repair to the module and component level on items such as radar altimeters, terrain following/avoidance radars, doppler navigation radars, and station-keeping radars; test-operates malfunctioning equipment; refers to circuit diagrams; performs detailed tests using voltmeters, ohmmeters, signal generators, oscilloscopes, and other test instruments to localize and isolate the faulty stage or component; determines extent of maintenance required; replaces faulty components to include transistors, solid-state devices, electronic switches, resistors, and capacitors; adjusts relays, dials, and controls using common or specialized handtools; cleans components of dust, rust, and foreign matter; test-operates, aligns, and comparison-checks repaired equipment with specialized test equipment; alters or modifies equipment using prescribed procedures; advises superiors about modifications and maintenance changes; keeps tools and test equipment in operating condition; keeps and completes maintenance and supply forms.

Recommendation

In the vocational certificate category, 6 semester hours in basic electronics, 6 in basic electronics laboratory applications, 6 in avionics instrumentation, 2 in systems maintenance and repair, and 1 in elementary algebra, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 2 in electronic systems, 1 in DC circuit analysis, 1 in AC circuit analysis, 1 in electron devices, 1 in instrumentation, 1 in radar systems, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) or 3 in technical electives. In an electrician or electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

MOS-35R-002

Avionic Special Equipment Repairer

35R10

35R20

Exhibit Dates: 9/77-Present.

Career Management Field: 28 (Aviation Communications-Electronics).

Description

Summary: Performs duties comparable to those of a Federal Communications Commission Second Class licensee; performs maintenance on special avionics equipment, including terrain following avoidance radar, doppler navigation radar, weather radar, station keeping radar, and inertial navigation systems. *Skill Level 10:* Troubleshoots and isolates equipment malfunctions to the component level; reads and interprets electronic circuit diagrams and schematics; plans and schedules maintenance checks; performs maintenance on special and common hand tools and on test, calibration, diagnostic, and support equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; repairs faulty printed circuit boards; maintains equipment records, authorized spare parts, supply stock, and technical literature.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electrical and electronic print reading, 4 in avionics maintenance, and 1 in aviation maintenance technology, for a total of 8 semester hours. In the lower-division baccalureate/associate degree category, 3 semester hours in electrical and electronic print reading and 4 in electronics maintenance or avionics technology (5/78).

Recommendation, Skill Level 20

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In the upper-division baccalaureate category, 4 semester hours in aviation maintenance management (5/78).

MOS-35S-001

Electronic Biomedical Equipment Repairman

35S20

35S40

Exhibit Dates: 10/74-2/78.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Summary: Repairs or supervises the repair of complex medical equipment (with the exception of x-ray and ancillary equipment) that functions on the basis of electrical, electronic, hydraulic, pressurized gas, steam, and optical principles. *Skill Level 20:* Able to perform the duties required for 35G20 (Biomedical Equipment Repairman); assembles, inspects, installs, adjusts, lubricates, and test-operates medical equipment, including electrocardiographs, electroencephalographs, patient monitoring systems, pulmonary equipment, short-wave diathermy apparatus, blood cell counters, spectrophotometers, ultrasonic therapy and treatment apparatus, heart-lung machines, and radioisotope monitoring and measuring equipment; troubleshoots faulty equipment using volt-ohm-milliameters, signal generators, oscilloscopes, solid-state testing apparatus, and other test equipment; repairs faulty equipment and insures proper calibration; renders technical advice and assistance to medical personnel as required; prepares and explains operating instructions, circuit diagrams, and technical literature; prepares maintenance forms and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises repair, inspection, and testing of electronic medical equipment; assigns duties to subordinate personnel and instructs them in proper repair procedures and techniques; plans, executes, and evaluates programs to assure workload quality and priorities; prepares reports of unit operations; recommends new or improved procedures for receipt, storage, inspection, testing, repair, and modification of equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in medical equipment repair, 5 in technical mathematics, 3 in tube theory and laboratory, 3 in DC theory and laboratory, 3 in AC theory and laboratory, 3 in transistor theory and laboratory, 3 in instrumentation techniques, 3 in physics, 3 in shop practices, 2 in digital theory and laboratory, 2 in anatomy and physiology, 2 in chemistry, 1 in medical terminology, and 1 in medical equipment safety practices and procedures, for a total of 40 semester hours. In the upper-division baccalaureate category, credit in biomedical engineering on the basis of institutional evaluation (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in medical equipment repair, 5 in technical mathematics, 3 in tube theory and laboratory, 3 in DC theory and laboratory, 3 in AC theory and laboratory, 3 in transistor theory and laboratory, 3 in instrumentation techniques, 3 in physics, 3 in shop practices, 2 in personnel supervision, 2 in human relations, 2 in digital theory and laboratory, 2 in chemistry, 2 in anatomy and physiology, 2 in maintenance management, 2 in technical report writing, 1 in medical terminology, and 1 in medical equipment safety practices and procedures, for a total of 48 semester hours. In the upper-division baccalaureate category, credit in biomedical engineering on the basis of institutional evaluation (5/76).

MOS-35S-002

Electronic Biomedical Equipment Repairer

35S10

35S20

35S30

Exhibit Dates: 3/78-Present.

Career Management Field: 91 (Medical), *subfield* 915 (Biomedical Equipment Repair).

Description

Summary: Repairs or supervises the repair of complex medical equipment (with the exception of x-ray and ancillary equipment) that functions on the basis of electrical, electronic, hydraulic, pressurized gas, steam, and optical principles. *Skill Level 10:* Able to perform the duties required for

35G10 (Biomedical Equipment Repairer); assembles, inspects, installs, adjusts, lubricates, and test-operates medical equipment, including electrocardiographs, electroencephalographs, patient monitoring systems, pulmonary equipment, short-wave diathermy apparatus, blood cell counters, spectrophotometers, ultrasonic therapy and treatment apparatus, heart-lung machines, and radioisotope monitoring and measuring equipment; troubleshoots faulty equipment using volt-ohm-millimeters, signal generators, oscilloscopes, transistor testing apparatus, and other test equipment; repairs faulty equipment and insures proper calibration. *Skill Level 20:* Able to perform the duties required for Skill Level 10; renders technical advice and assistance to medical personnel as required; prepares and explains operating instructions, circuit diagrams, and technical literature; prepares maintenance forms and reports. NOTE: May have progressed to 35S20 from 35S10 or 35G20 (Biomedical Equipment Repairer). *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises repair, inspection, and testing of electronic medical equipment; assigns duties to lower skill level personnel and instructs them in proper repair procedures and techniques; plans, executes, and evaluates programs to assure workload quality and priorities; prepares reports of unit operations; recommends new or improved procedures for receipt, storage, inspection, testing, repair, and modification of equipment.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 5 semester hours in technical mathematics, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 1 in medical terminology, 2 in chemistry, 3 in physics, 3 in transistor theory and laboratory, 4 in electronic circuit theory, 4 in instrumentation techniques, 2 in digital theory, 1 in medical equipment safety practices, 4 in medical equipment repair, and 3 in electronics shop practices, for a total of 38 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 1 in medical terminology, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronics construction methods, 1 in electrical safety, 4 in medical equipment repair, 3 in electronics shop practices, 4 in instrumentation, 2 in digital theory, and 3 in physics, and an additional 3 semester hours in biomedical instrumentation on the basis of institutional evaluation, for a minimum total of 31 semester hours (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in technical mathematics, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 1 in medical terminology, 2 in chemistry, 3 in physics, 3 in transistor theory and laboratory, 4 in electronic circuit theory, 4 in instrumentation techniques, 2 in digital theory, 1 in medical equipment safety practices, 6 in medical equipment repair, and 3 in electronics shop practices, for a total of 40 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 1 in medical terminology, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronics construction methods, 1 in electrical safety, 6 in medical equipment repair, 3 in electronics shop practices, 4 in instrumentation, 2 in digital theory, 3 in physics, 3 in personnel supervision, 2 in human relations, and 2 in technical report writing, and an additional 3 semester hours in biomedical instrumentation on the basis of institutional evaluation, for a minimum total of 40 semester hours (11/79).

MOS-35T-001

X-Ray Biomedical Equipment Repairman

35T20

35T40

Exhibit Dates: 10/74–2/78.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Summary: Repairs all types of medical x-ray equipment which functions on the basis of mechanical, hydraulic, electrical, electronic, solid state, and optical principles. *Skill Level 20:* Able to perform the duties of MOS 35G20 (Biomedical Equipment Repairman); inspects, installs, adjusts, maintenance-calibrates, test-operates, rebuilds, and maintains all types of x-ray equipment and ancillary equipment, such as rapid film changers, dye contrast injection apparatus, cineradiography, closed-circuit television, and image intensifiers; employs test equipment such as volt-ohm-milliameters, vacuum tube or solid-state voltmeters, digital voltmeters, signal generators, and oscilloscopes to localize malfunction to the component level; determines utility requirements such as water, waste, or electrical lines and outlets for equipment; provides technical advice and assistance to medical personnel as required; prepares and explains operating instructions, circuit diagrams, technical literature, and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assigns duties to subordinate personnel; instructs them in proper repair procedures and techniques; plans, executes, and evaluates programs to assure workload quality and priorities; recommends new or improved procedures for receipt, storage, inspection, testing, repair, and modification of equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in technical mathematics, 3 in x-ray equipment repair, 3 in medical equipment repair, 3 in tube theory and laboratory, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 3 in transistor theory and laboratory, 3 in physics, 3 in instrumentation techniques, 3 in shop practices, 2 in digital theory and laboratory, 2 in anatomy and physiology, 2 in chemistry, 1 in medical terminology, and 1 in medical equipment safety practices, for a total of 40 semester hours. In the upper-division baccalaureate category and the graduate degree category, credit in biomedical engineering on the basis of institutional evaluation (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 5 semester hours in technical mathematics, 3 in x-ray equipment repair, 3 in medical equipment repair, 3 in tube theory and laboratory, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 3 in transistor theory and laboratory, 3 in physics, 3 in instrumentation techniques, 3 in shop practices, 2 in digital theory and laboratory, 2 in anatomy and physiology, 2 in chemistry, 2 in personnel supervision, 2 in human relations, 2 in technical report writing, 2 in maintenance management, 1 in medical terminology, and 1 in medical equipment safety practices, for a total of 48 semester hours. In the upper-division baccalaureate category and in the graduate degree category, credit in biomedical engineering on the basis of institutional evaluation (5/76).

MOS-35T-002

X-Ray Biomedical Equipment Repairer

35T10

35T20

35T30

Exhibit Dates: 3/78–Present.

Career Management Field: 91 (Medical), *subfield* 915 (Biomedical Equipment Repair).

Description

Summary: Repairs all types of x-ray equipment, including subsystems based on mechanical, hydraulic, electrical, electronic, and optical principles. *Skill Level 10:* Able to perform the duties required for 35G10 (Biomedical Equipment Repairer); inspects, installs, adjusts, calibrates, tests, and maintains all types of x-ray equipment and ancillary equipment including rapid film changers, dye contrast inspection apparatus, cineradiography, closed circuit television and image intensifiers; uses test equipment including volt-ohm-milliameters, vacuum tube or solid-state voltmeters, digital voltmeters, transistor checkers, signal generators, and oscilloscopes; keeps equipment maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. NOTE: May have progressed to 35T20 from 35T10 or 35G20 (Biomedical Equipment Repairer). *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties; instructs in proper repair procedures; ensures proper maintenance of records; prepares technical and administrative reports pertaining to unit operations; recommends new or improved procedures for receipt, storage, inspection, testing, and repair of equipment.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 5 semester hours in technical mathematics, 3 in physics, 2 in chemistry, 1 in medical terminology, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 3 in transistor theory and laboratory, 4 in electronic circuit theory, 4 in instrumentation techniques, 2 in digital theory, 1 in medical equipment safety practices, 4 in x-ray equipment repair, and 3 in electronics shop practices, for a total of 38 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 1 in medical terminology, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronics construction methods, 1 in electrical safety, 4 in x-ray equipment repair, 3 in electronics shop practices, 4 in instrumentation, 2 in digital theory, and 3 in physics, and an additional 3 semester hours in biomedical instrumentation on the basis of institutional evaluation, for a minimum total of 31 semester hours (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in technical mathematics, 3 in physics, 2 in chemistry, 1 in medical terminology, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 3 in transistor theory and laboratory, 4 in electronic circuit theory, 4 in instrumentation techniques, 2 in digital theory, 1 in medical equipment safety practices, 6 in x-ray equipment repair, and 3 in electronics shop practices, for a total of 40 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 1 in medical terminology, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronics construction methods, 1 in electrical safety, 6 in x-ray equipment repair, 3 in electronics shop practices, 4 in instrumentation, 2 in digital theory, 3 in physics, 3 in personnel supervision, 2 in human relations, and 2 in technical report writing, and an additional 3 semester hours in biomedical instrumentation on the basis of institutional evaluation, for a minimum total of 40 semester hours (11/79).

MOS-35U-001

Biomedical Equipment Maintenance Chief

35U50

Exhibit Dates: 10/74–2/78.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Able to perform the duties of MOS 35S40 (Electronic Biomedical Equipment Repairman) or 35T40 (X-Ray Biomedical Equipment Repairman); serves as a first-line supervisor in a medical equipment maintenance section; supervises all levels of maintenance on all types of medical equipment; plans and lays out medical maintenance facilities; plans workflow, assigns duties, and instructs in maintenance work techniques; makes periodic checks of equipment to determine degree of maintenance effectiveness; establishes and maintains procedures to assure an effective preventive maintenance program for medical equipment; enforces hospital safety directives that apply to medical equipment and associate electronic test equipment; reacts expeditiously to emergency breakdowns of equipment utilized in electrically sensitive patient areas; supervises or assists in establishing reports control system, preparation of equipment maintenance reports, and surveys of medical equipment; provides advice on the advantages of contract maintenance versus in-house maintenance for specific medical systems; advises procurement personnel on function and safety capabilities of technical medical equipment and systems; recommends replacement of medical equipment based upon usage factors and personal experience.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in personnel supervision, 3 in technical report writing, and 3 in shop management, for a total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in industrial arts education (electronics), and additional credit in biomedical engineering on the basis of institutional evaluation for a minimum total of 12 semester hours. In the graduate degree category, credit in biomedical engineering on the basis of institutional evaluation. NOTE: Award additional credit on the basis of previously assigned MOS—either 35S40 (Electronic Biomedical Equipment Repairman) or 35T40 (X-ray Biomedical Equipment Repairman) (6/76).

MOS-35U-002

Biomedical Equipment Maintenance Chief

35U40

35U50

Exhibit Dates: 3/78–Present.

Career Management Field: 91 (Medical), *subfield* 915 (Biomedical Equipment Repair).

Description

Summary: Supervises maintenance on all types of medical equipment. *Skill Level 40:* Able to perform the duties required for MOS 35S (Electronic Biomedical Equipment Repairer) or MOS 35T (X-ray Biomedical Equipment Repairer); establishes procedures for the proper operation and maintenance of biomedical equipment; ensures that all test and measuring equipment is calibrated properly; plans workflow and assigns duties; conducts in-service training programs; establishes maintenance and inventory records; advises and assists superiors in administrative, fiscal, personnel and supply matters; monitors requisitioning storage, issue, and utilization of supplies and equipment. NOTE: May have progressed to 35U40 from 35S30 (Electronic Biomedical Equipment Repairer) or 35T30 (X-ray Biomedical Equipment Repairer). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises medical equipment maintenance operations; writes, develops, and coordinates regulations and policies pertaining to biomedical instrumentation material maintenance programs; provides guidance to subordinate units in the development of annual training programs; determines need for and schedules personnel for attendance at specialized manufacturer's courses; serves as team chief for medical maintenance assistance and instruction teams.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management and 3 in record keeping. In the upper-division baccalaureate category, 3 semester hours in human relations, 3 in introduction to management, and 3 in personnel management, and credit in biomedical engineering on the basis of institutional evaluation, for a minimum total of 9 semester hours (11/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in record keeping, 3 in public speaking, and 3 in technical writing, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in human relations, 3 in introduction to management, 6 in personnel management, and 6 in industrial arts education (electronics), and credit in biomedical engineering on the basis of institutional evaluation, for a minimum total of 18 semester hours (11/79).

MOS-36C-001

Telephone Installer and Lineman (Lineman)

36C20

36C40

36C50

Exhibit Dates: 10/73–2/78.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Can identify tools, materials, hardware, and supply nomenclature used in wood pole construction and, to a limited extent, in formal underground systems; climbs and works on wood structures, using tools and techniques compatible with industry practice; has some knowledge of telephone line cable practices; MOS 36C equates directly with the trade classification of installer as used by both the telephone and cable television industries. *Skill Level 20:* Knows line work processes, including safety practices, first aid procedures, and tools and equipment nomenclature; performs maintenance on wood pole lines and, to a limited degree, formal underground systems. *Skill Level 40:* Able to perform the duties required for Skill Level 20; functions as a telephone installer crewleader, supervising from 8 to 32 persons (one to four pole line construction teams); makes routine maintenance checks from a prescribed list; uses some specialized installation and operational techniques; records work and personnel information. NOTE: May have progressed to 36C40 from 36C20 or 36K40 (Tactical Wire Operations Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; could serve as a telephone installer foreman, if this position existed in industry, or as an installer-dispatcher with a large telephone system; installs and repairs cables; follows circuit charts; prepares technical and administrative reports; keeps limited records; supervises training. NOTE: May have progressed to 36C50 from 36C40, 36D40, 36D50 (Antennaman), 36E40 (Cable Splicer), or 36H50 (Dial Central Office Repairman).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen). In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen) and 3 in telephone installation. In a telephone lineman or a cable television apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a construction lineman or a utility lineman apprentice training program, 500 clock hours of experience and 30 contact hours of related instruction. In a telephone cable splicer or a network lineman apprentice training program, 250 clock hours of experience and 20 contact hours of related instruction. NOTE: The skills and knowledge of this MOS classification are usually regarded by industry as achieved by a trainee program rather than through formal apprenticeship (2/75).

Recommenation, Skill Level 40

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen) and 3 in cable communications systems. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen), 3 in telephone installation, 2 for field experience in education, and 3 in personnel supervision, for a total of 14 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen) and 6 in cable communications systems. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen), 6 in personnel supervision, 4 in telephone installation, and 4 for field experience in education, for a total of 20 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/75). In March 1976, 36C50 was reevaluated and the following additional recommendation was made: In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, and 3 in human relations, for a minimum total of 12 semester hours; *if the duty assignment was first sergeant or operations sergeant at Grade E-8,* 3 additional semester hours in personnel management, for a total of 15 semester hours; and/or *if the duty assignment was chief instructor at a formal training facility or chief training NCO at Grade E-9,* 3 additional semester hours for an internship in education, for a maximum total of 15 or 18 semester hours (3/76).

MOS-36C-002

WIRE SYSTEMS INSTALLER/OPERATOR

36C10
36C20
36C30
36C40
36C50

Exhibit Dates: 3/78–Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Installs, operates, supervises, and performs operator maintenance on wire and cable communications systems. MOS 36C equates directly with the trade classification of installer as used by both the telephone and cable television industries. *Skill Level 10:* Installs and operates telephones and switchboards; installs, splices, and loads wire and cable circuits;. climbs poles to perform cable operations. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises installation, operation, and performance of operator maintenance by subordinate personnel; schedules operator shift personnel, and estimates materiel needs for tactical communications installations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; coordinates and supervises all phases of wire/cable and distribution systems; assigns working crews and coordinates shift personnel; instructs and assists in training unit personnel; may supervise 7-15 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises all phases of wire/cable installation and operations; coordinates shift personnel; prepares reports on installation and maintenance; coordinates and supervises training; may supervise 30 or more persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, monitors, and/or supervises installation, operation, maintenance, and training of personnel for wire and cable communications systems; may serve as principal noncommissioned officer; could serve as a telephone installer foreman, if this position existed in industry, or as an installer-dispatcher with a large telephone system.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen). In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen) and 3 in telephone installation (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen) and 3 in cable communications systems. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen), 3 in telephone installation, and 2 in personnel supervision, for a total of 11 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen), 3 in telephone installation, and 3 in personnel supervision, for a total of 12 semester hours (10/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen), 3 in telephone installation, 3 in personnel supervision, and 2 in instructional techniques, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in introduction to management (10/79).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen) and 6 in cable communications systems. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph linemen), 6 in personnel supervision, 4 in telephone installation, and 4 in instructional techniques, for a total of 20 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in human relations, for a minimum total of 12 semester hours; *if the duty position was first sergeant or wire systems operations sergeant,* 3 additional semester hours in personnel management for a total of 15 semester hours (10/79).

MOS-36D-001

ANTENNAMAN

36D20
36D40
36D50

Exhibit Dates: 3/74–2/78.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Erects, anchors, and braces antenna towers complete with electrically controlled directional or fixed antennas; makes electrical connections of control and transmission cables between antennas and ground equipment; inspects, repairs, and tests electrical devices used to rotate antennas. *Skill Level 20:* Performs basic procedures and techniques involved in the installation of pole and steel tower antennas; bores holes and erects poles using motorized equipment; transports, assembles, and disassembles antenna towers using manual and motorized equipment; constructs antenna base and braces towers; adjusts tower guy wires for proper tension; has a basic knowledge of tower and antenna configuration for different operational requirements. *Skill Level 40:* Able to perform the duties required for Skill Level 20; organizes, supervises, and coordinates antenna installation, maintenance, and rehabilitation; instructs 8-30 subordinate antennamen in approved techniques for antenna installation and maintenance; estimates time, supplies, personnel, and equipment required for installation of antennas and towers. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer of an antenna maintenance team in a unit operating independently (without an officer); performs technical and administrative duties including writing reports, providing technical guidance to personnel related to complex construction and rehabilitation of antenna installations, and interpreting new technical literature.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment operation (boring and tower erection equipment), 3 basic electricity (DC circuits), 3 in basic electrical motors and servos, and 3 in antennas (basic electronics), for a total of 12 semester hours. In a radio-television repairman apprentice training program, 500 clock hours of experience in antenna installation and maintenance (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division bacca-

laureate/associate degree category, 3 semester hours in heavy equipment operation (boring and tower erection equipment), 3 in basic electricity (DC circuits), 3 in basic electrical motors and servos, 3 in antennas (basic electronics), 3 in introduction to management, and 3 in human relations, for a total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS-36D-002

Antenna Installer Specialist

36D10
36D20
36D30
36D40

Exhibit Dates: 3/78–Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Selects site, erects, anchors and braces antenna towers and antenna systems; makes connections of transmission cable or waveguide between antenna and ground equipment; inspects and performs preventive maintenance and repairs on towers and bases. *Skill Level 10:* Performs basic procedures of antenna tower erection; assists in determining proper site, constructing base and antenna support towers, adjusting guy wires for correct tension; uses motorized equipment for drilling base holes and erecting towers and poles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs basic procedures of installation of pole and steel tower antennas; bores holes and erects poles, using motorized equipment; transports, assembles and disassembles antenna towers; attaches and adjusts guy wires and braces; has basic knowledge of tower and antenna configuration for different operational requirements and climatic conditions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; organizes, supervises, and coordinates antenna installation, maintenance, and repair; instructs subordinate antennamen in approved techniques for antenna installation and maintenance; estimates time, supplies, equipment, and personnel necessary for tower installation or repair; may supervise 3 or more antenna installers. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs technical and administrative duties attached to performance of the duty of team chief; supervises 3 or more antenna crews or 8 or more installer specialists; writes reports, provides technical guidance to personnel on maintenance, installation, and interpretation of new technical literature; supervises on-the-job training of antenna team.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, and credit in the building trades, construction, and heavy equipment on the basis of institutional evaluation (5/79).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity, 3 in antenna maintenance, and credit in the building trades, construction, and heavy equipment on the basis of institutional evaluation (5/79).

Recommendation, Skill Level 30

In the vocational certificate category the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity, 3 in antenna maintenance, 2 in human relations, 2 in maintenance management, and 2 in personnel supervision, and credit in the building trades, construction, and heavy equipment on the basis of institutional evaluation, for a minimum total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower division baccalaureate/associate degree category, 2 semester hours in basic electricity, 3 in antenna maintenance, 3 in human relations, 3 in maintenance management, and 3 in personnel supervision, and credit in the building trades, construction, and heavy equipment on the basis of institutional evaluation, for a minimum total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/79).

MOS-36E-001

Cable Splicer

36E20
36E40

Exhibit Dates: 10/73–2/78.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Splices all types of communication cables. *Skill Level 20:* Prepares, tests, and joins insulated conductors in multiple-conductor cables; splices and seals spliced openings on nonquadded, quadded, coaxial, and video cables in aerial, trenched, underground, submarine, or building installations; tests, troubleshoots, and repairs pressurized and nonpressurized multiconductor telephone cable; locates and installs cable terminals; terminates and connects cables to distribution boxes and distribution frames; operates mechanical ladders and hydraulic booms; climbs poles and operates pump equipment; repairs cables and cable terminals, complying with standard splicing practices and safety procedures; interprets line route maps, overlays, circuit diagrams, detail splice diagrams, cable route prints, cable plant records, splicing diagrams, and symbols commonly used in cable communications system diagrams; employs cable splicer hand tools, electrical test sets, cable splicer auxiliary equipment, and common construction tools. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 4–10 cable splicers; demonstrates splicing techniques and procedures; interprets specifications on the construction of manholes, cable vaults, and cable huts; prepares central office cable records, detail splicing diagrams, and cable route prints; reviews, consolidates, and prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical cable installation and 3 in electronics fundamentals (DC circuits). In a cable splicer apprentice training program, 500 clock hours of experience (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical cable installation, 3 in electronics fundamentals (DC circuits), 3 in introduction to management, and 3 in human relations, for a total of 12 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS-36E-002

Cable Splicer

36E10
36E20
36E30

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-36G-001

Manual Central Office Repairman

36G20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 36G was discontinued and its functions were incorporated into MOS 36H, Dial/Manual Central Office Repairer.)

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Maintains manual central office telephone exchange equipment; wires mainframe, switchboard, relay racks, and related units; performs minor maintenance on equipment including replacement or repair of broken wires, jumpers, and cables; adjusts openings between contacting parts; tests and changes spring tensions; conducts operating and electrical tests and compares results with specified standards; reconditions components, replaces parts, and rewires equipment; reads circuit and wiring diagrams; computes voltage, amperage, and resistance factors involving simple algebraic formulas.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity. Advanced standing in a telephone exchange repairman apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS-36H-001

Dial Central Office Repairman

36H20
36H40
36H50

Exhibit Dates: 10/73-2/78.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Installs, maintains, and repairs inside and outside plant dial telephone equipment. *Skill Level 20:* Installs wiring; mechanically secures mainframes; conducts tests; inspects, adjusts, and test relays, troubleshoots and repairs or replaces defective components such as relays, wiring, and terminal boards; assists in identifying cable troubles. NOTE: May have progressed to 36H20 from 36G20 (Manual Central Office Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans installation, operation, and maintenance procedures and techniques; normally supervises 15 to 25 persons; allocates resources; interprets wiring diagrams, specifications, color-code charts, and technical literature pertaining to wire communications systems; demonstrates installation, operation, and maintenance techniques; diagnoses unusual cases of equipment malfunction. *Skill Level 50:* Able to perform the duties required for Skill Level 40; normally supervises more than 25 persons; statistically analyzes the system for planning and operational loading; prepares work schedules, directs record keeping, and requisitions supplies; reviews, consolidates, and prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity/electronics with laboratory. In a P.B.X. installer (telephone and telegraph) apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a telephone repairman apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a central office installer-repairman apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic electricity/electronics with laboratory. In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity/electronics with laboratory, 3 in introduction to management, 3 in personnel supervision, and 3 in human relations, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in communications electricity and 3 for field experience in management. In a telephone repairman or P.B.X. installer (telephone and telegraph) apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a central office installer-repairman apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in basic electricity/electronics with laboratory. In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity/electronics with laboratory, 3 in introduction to management, 3 in personnel supervision, 3 in human relations, and 3 in technical writing, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in communications electricity and 6 for field experience in management, for a total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 40 because additional skills are administrative and supervisory in nature (3/76).

MOS-36H-002

Dial/Manual Central Office Repairer

36H10
36H20
36H30
36H40

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Installs, maintains, and repairs central office telephone exchange equipment. *Skill Level 10:* Installs wiring; replaces or repairs system components; conducts operating and electrical tests; uses schematic diagrams to diagnose and locate malfunctions; uses general purpose and special electronic meters to test for signals. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and assists Skill Level 10 personnel in locating and repairing system malfunctions; conducts technical inspection of central office equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the installation, operation, and maintenance of central office telephone exchange equipment; diagnoses unusual causes of equipment malfunction; prepares and maintains technical and administrative records and reports; prepares work schedules; may supervise from six to eight persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans for and supervises the installation, operation and maintenance activities; prepares work schedules and specific assignments; requisitions supplies; monitors and corrects faulty work procedures; advises superiors about optimum utilization; may supervise eight or more persons; may be in charge of several central offices.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 2 in troubleshooting techniques, 2 in solid-state circuits, and 2 in electronic communications, for a total of 12 semester hours (5/79).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 4 in troubleshooting techniques, 3 in solid-state circuits, and 4 in electronic communications, for a total of 17 semester hours (5/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 5 in troubleshooting techniques, 3 in solid-state circuits, and 4 in electronic communications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 5 in troubleshooting techniques, 3 in solid-state circuits, 4 in electronic communications, 3 in maintenance management, 2 in personnel supervision, 3 in human relations, and 2 in record keeping, for a total of 28 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in management (5/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 5 in troubleshooting techniques, 3 in solid-state circuits, 4 in electronic communications, 3 in maintenance management, 3 in personnel supervision, 3 in human relations, and 3 in record keeping, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in office management (5/79).

MOS-36K-001

Tactical Wire Operations Specialist
(Field Wireman)

36K20
36K40

Exhibit Dates: 10/73-2/78.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Installs and maintains field wire communications systems and performs related operating duties in field telephone centers. *Skill Level 20:* Installs and maintains field telephone and switchboards; climbs poles and constructs field wire lines; recovers and services field wire; uses grid and line route maps; employs lineman's common hand tools and testing devices; locates and repairs shorts, grounds, opens, and other damage in wire communications systems; operates switchboards and prepares, edits, transmits, and routes messages. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 4-8 field wiremen in the installation, operation, and maintenance of field wire communications systems; allocates resources and assigns workloads; demonstrates techniques of wire and cable installation and maintenance; interprets maps, overlays, and wire construction requirements.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC current) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity (DC current) and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC current), 3 in map reading, 3 in introduction to management, and 3 in human relations, for a total of 12 semester hours (3/76).

MOS-36K-002

Tactical Wire Operations Specialist

36K10
36K20

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-36L-001

Electronic Switching Systems Repairman

36L20
36L30

Exhibit Dates: 3/77–2/78. Pending evaluation.

MOS-36L-002

Electronic Switching Systems Repairer

36L10
36L20
36L30

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-41B-001

Topographic Instrument Repairman

41B20

Exhibit Dates: 10/73–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Maintains, disassembles, repairs, tests, adjusts, and reassembles all topographic and cartographic instruments.

Recommendation

In the vocational certificate category, 22 semester hours in surveying and cartographic instrument repair and 2 in use and care of tools and equipment. In the lower-division baccalaureate/associate degree category, 4 semester hours in instrument repair and 2 in use and care of tools and equipment (12/75).

MOS-41B-002

Topographic Instrument Repair Specialist

41B10
41B20

Exhibit Dates: 3/77–Present.

Career Management Field: 81 (Topographic Engineering), *subfield* 812 (Surveying).

Description

Summary: Performs maintenance on topographic survey and cartographic equipment. *Skill Level 10:* Inspects equipment for damaged, defective, or malfunctioning parts or assemblies; adjusts and performs operational tests on equipment; checks optics for such conditions as lens aberrations, parallax, tilt of recticule, and scratched lens; disassembles equipment and replaces defective parts with standard items; interprets blueprints, and military or manufacturers' specifications; isolates and corrects trouble; lays out and fabricates unobtainable metal parts or coordinates their fabrication with machinists, welders, or other specialists; makes sketches or diagrams used in disassembling and reassembling equipment or fabricating parts; applies principles of basic electricity when making minor electrical repairs; makes precision bits and clearances using precision measuring instruments; requisitions and inventories spare parts; prepares maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; controls quality of topographic instrument maintenance to final inspection of repairs performed; estimates cost of repairs, parts, and labor; prepares and reviews maintenance records and reports; schedules and assigns duties; fabricates special tools; overhauls and rebuilds equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in survey and optical instrument repair, 3 in basic surveying, and 2 in care and use of tools and equipment, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in survey and optical instrument repair, 3 in basic surveying, 2 in care and use of tools and equipment, and credit in optics on the basis of institutional evaluation, for a minimum total of 8 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in survey and optical instrument repair, 3 in basic surveying, 2 in use and care of tools and equipment, and 2 in record keeping, and credit in optics on the basis of institutional evaluation, for a minimum total of 10 semester hours (5/78).

MOS-41C-001

Fire Control Instrument Repairman

41C10
41C20
41C40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 636 (Armament Maintenance).

Description

Summary: Performs maintenance on fire control instruments and related equipment. *Skill Level 10:* Assists in maintenance, repair, and modification of binoculars, aiming circles, telescopes, range finders, and periscopes; uses hand tools, power tools, and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects, tests, repairs, and synchronizes fire control systems; tests, adjusts, and repairs optical systems; checks and repairs electrical circuits, using instruments such as ohmmeters, voltmeters, and null-voltage test sets; conducts operating tests to insure that instruments perform within specified tolerances and performance standards. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises subordinate personnel; plans the use of facilities and equipment; administers shop safety program; requisitions parts, equipment, and supplies; conducts final operating instrument tests.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of hand and power tools (3/75).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in use and care of hand and power tools and 3 in applied physics. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics and additional credit on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in use and care of hand and power tools, 1 in records administration, and 3 in applied physics, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in shop management, 3 in personnel supervision, and 3 in applied physics, and additional credit on the basis of institutional evaluation, for a minimum total of 7 semester hours. In the upper-division baccalaureate category, 3 semester hours in administration and additional credit on the basis of institutional evaluation (3/75).

MOS-41C-002

Fire Control Instrument Repairer
(Fire Control Instrument Repairman)

41C10
41C20
41C30
41C40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Supervises or performs maintenance on fire control instruments and related equipment. *Skill Level 10:* Performs maintenance on fire control instruments and related equipment including binoculars, aiming circles, telescopes, rangefinders, and mechanical/electrical ballistic computers and output devices mounted in vehicles; utilizes hand and power tools and testing equipment in the removal, repair, replacement, and synchronization of fire control systems used in tanks and self-propelled and towed artillery; tests optical instruments for conditions such as parallax, lens aberration, tilt of reticle, and deviations in line of sight; traces circuits by referring to schematic diagrams; tests instruments to insure performance within specified standards and tolerances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; performs preliminary and final inspection of fire control instruments and related equipment; is a first-line supervisor in direct and general support units; conducts on-the-job training; prepares maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises fire control instrument maintenance activities; organizes the shop layout; establishes and administers a shop safety program; requisitions repair parts and materials; uses technical publications; performs final operating tests. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises fire control instrument and fire control computer maintenance activities. NOTE: May have progressed to 41C40 from 41C30 or 34G30 (Fire Control Computer Repairman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, and 1 in use and care of tools, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, a minimum of 3 semester hours in applied physics, and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,000 clock hours of experience and 60 contact hours of related instruction, *if the duty assignment of fire control instrument repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, 1 in use and care of tools, and 1 in records administration, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, a minimum of 3 semester hours in applied physics and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, *only if the duty assignment of fire control instrument repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, 3 in shop practices and procedures, 1 in use and care of tools, and 1 in records administration, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 2 in shop practices and procedures, 2 in personnel supervision, and 1 in records administration, and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation, for a minimum total of 8 semester hours. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, 3 in shop practices and procedures, 1 in use and care of tools, and 1 in records administration, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in personnel supervision, 2 in shop practices and procedures, and 1 in records administration, and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-41E-001

Camera Repairman

41E20

Exhibit Dates: 10/73–2/77.

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Performs maintenance and repair on still and motion picture cameras and on darkroom equipment; demonstrates a knowledge of light, light sources, darkroom procedures, films, photo-chemistry, and operation of single-lens-reflex, twin-lens-reflex, and large-format cameras (including lens and shutter assemblies, film transport/release mechanisms, and camera bodies).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic photography, 6 for field experience in photography, 3 in audio-visual equipment repair, 3 in troubleshooting concepts, and 3 in use of test equipment, for a total of 21 semester hours (5/76).

MOS-41E-002

Audio-Visual Equipment Repairer (Audio-Visual Equipment Repairman)

41E10

41E20

Exhibit Dates: 3/77–Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Performs maintenance and repair on still cameras, motion picture cameras, darkroom equipment, and audio-visual equipment. *Skill Level 10:* Demonstrates a knowledge of light, light sources, darkroom procedures, film, photochemistry, operation of a single-lens-reflex, twin-lens-reflex, and large-format cameras (including lens and shutter assemblies, film transport/release mechanism, and camera bodies), projectors, and audio equipment; assists in troubleshooting faulty equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel; troubleshoots faulty equipment.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics (light and sound), 3 in troubleshooting concepts, 3 in audio-visual equipment operation, 3 in care and use of testing equipment, 6 in basic photography, 3 in audio-visual equipment repair, 6 for field experience in photography, and credit in technical mathematics (as it relates to electricity) and basic electronics on the basis of institutional evaluation, for a minimum total of 30 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics (light and sound), 3 in troubleshooting concepts, 3 in troubleshooting techniques, 3 in audio-visual equipment operation, 3 in care and use of testing equipment, 6 in basic photography, 3 in audio-visual equipment repair, 6 for field experience in photography, and credit in technical mathematics (as it relates to electricity) and basic electronics on the basis of institutional evaluation, for a minimum total of 33 semester hours (5/78).

MOS-41F-001

Projector Repairman

41F20

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 41F was discontinued and its functions were incorporated into MOS 41E, Audio-visual Equipment Repairman.)

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Inspects, troubleshoots, repairs, and test-operates projection equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in physics of visual phenomena, light, and sound, 6 in troubleshooting concepts, 3 in audio-visual equipment repair, and 3 in use of test equipment, for a total of 15 semester hours (5/76).

MOS-41G-001

Surveillance Photographic Equipment Repairman

41G20

Exhibit Dates: 10/73–8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Inspects and test-operates photographic equipment to detect and determine general faults; replaces minor defective parts or replaceable assemblies and adjusts items to operating conditions; disassembles malfunctioning equipment into component assemblies and systems for further inspection; gauges mechanical parts to detect wear and misalignment; straightens or replaces bent mechanical parts and components; replaces and adjusts optical elements; paints and refinishes equipment cases and containers; inspects and tests electrical and electronic equipment to ascertain condition and functioning; repairs electronic circuits associated with cameras; assembles repaired equipment and test-operates and makes adjustments to assure proper functioning; stores tools and testing equipment.

Recommendation

In the vocational certificate category, 1 semester hour in shop practices, 1 in industrial science, 3 in introductory electronics, 2 in AC-DC circuits, 2 in electron devices, 2 in systems maintenance, 2 in intermediate circuits, 1 in electronic instrumentation, and additional credit in machine shop on the basis of institutional evaluation, for a minimum total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic photography, 3 in introductory electronics, 2 in AC-DC circuits, 2 in electron devices, and 1 in electronic instrumentation, for a total of 14 semester hours. In the upper-division baccalaureate category, 6 semester hours in advanced photography. In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-41G-002

Aerial Surveillance Photographic
Equipment Repairer

41G10
41G20

Exhibit Dates: 9/77-Present. Pending evaluation.

MOS-41H-001

Photographic Equipment Repair Chief

41H40

Exhibit Dates: 10/73-3/77. (Effective 3/77, MOS 41H was discontinued and its functions were incorporated into MOS 26T, Radio/Television Systems Specialist, and MOS 84T, TV/Radio Broadcast Operations Chief.)

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Able to perform the duties required for 41E20 (Camera Repairman), 41F20 (Projector Repairman), or 41G20 (Surveillance Photographic Equipment Repairman); supervises a photographic equipment repair center consisting of 10 to 20 photographic equipment maintenance personnel; develops procedures and standards and inspects repaired equipment to assure high standards of work performance; assigns duties; applies production line procedures for the maintenance of photographic equipment; corrects improper techniques and procedures and explains proper methods; interprets and explains technical literature and diagrams; requisitions supplies; prepares technical and administrative reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic photography, 6 for field experience in photography, 6 in troubleshooting concepts, 3 in use of test equipment, 6 in audio-visual equipment repair, 3 in introductory electronics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 39 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management or industrial management (5/76).

MOS-41J-001

Office Machine Repairman

41J20
41J40

Exhibit Dates: 10/73-8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 631 (Precision Devices).

Description

Summary: Performs general maintenance on office machines, excluding electronic calculators and accounting equipment. *Skill Level 20:* Diagnoses the causes of malfunctions; repairs, adjusts, cleans, and lubricates office machines; tests machines to determine the effectiveness of adjustments and repairs. *Skill Level 40:* Able to perform the duties required for Skill Level 20; diagnoses more complex malfunctions; supervises maintenance activities; makes final inspections; orders, stores, and distributes parts; establishes shop policies and procedures; supervises a minimum of five persons.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in office machine repair laboratory. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation. In a business machines mechanic apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in office machine repair. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, a minimum of 3 semester hours in management and additional credit on the basis of institutional evaluation. Journeyman status (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) as a business machines mechanic (2/75).

MOS-41J-002

Office Machine Repairer
(Office Machine Repairman)

41J10
41J20
41J30
41J40

Exhibit Dates: 9/75-Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 631 (Precision Devices).

Description

Summary: Performs general maintenance on office machines, excluding electronic calculators and accounting equipment. *Skill Level* 10: Assists in maintaining office machines; adjusts office machines. *Skill Level 20:* Able to perform the duties required for Skill Level 10; analyzes condition and operating efficiency of office machines; diagnoses causes of malfunctions; determines maintenance requirements and replaces defective or excessively worn parts and assemblies; disassembles, repairs, cleans, adjusts, tightens, lubricates, reassembles, and test-operates machines. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the maintenance of office machines; inspects machines with complex malfunctions to determine the extent of repairs required; makes final inspection of machines maintained or repaired by Skill Level 10 and 20 personnel; instructs Skill Level 10 and 20 personnel in general and specialized repair operations; keeps maintenance records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises office machine maintenance activities of a large unit or in a repair shop; usually supervises a minimum of 14 persons; instructs personnel on repair of non-electric and electric typewriters, adding machines, and calculators.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, and 3 in office machine repair laboratory, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, and 3 in basic electricity, for a total of 6 semester hours. In a business machine or office machine repairman apprentice training program, 1,000 clock hours of experience and 60 contact hours of related instruction, *only if the duty assignment of office machine repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in use and care of hand tools; 2 in shop practices and procedures, 3 in basic electricity, and 6 in office machine repair laboratory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, and 3 in basic electricity, and additional credit in electricity and office machine repair on the basis of institutional evaluation, for a minimum total of 6 semester hours. In a business machine or office machine repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, *only if the duty assignment of office machine repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 9 in office machine repair laboratory, 1 in records administration, and 2 in personnel supervision, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 1 in records administration, and 2 in personnel supervision, and additional credit in electricity, office machine repair, records administration and personnel supervision on the basis of institutional evaluation, for a minimum total of 9 semester hours. In a business machine or office machine repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 9 in office machine repair laboratory, 1 in records administration, and 2 in personnel supervision, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 1 in records administration, and 2 in personnel supervision, and additional credit in electricity, office machine repair, records administration, and personnel supervision on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. In a business machine or office machine repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12-75).

MOS-41K-001

Reproduction Equipment Repairman

41K20

Exhibit Dates: 10/73–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Repairs printing equipment, including duplicators, offset presses, process cameras, and bindery, platemaking, and other machines.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools, 3 in offset press operation, 3 in process camera operation, 3 in bindery operation, 1 in platemaking operation, and 6 for field experience in graphic arts, and credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 19 semester hours (5/76).

MOS-41K-002

Reproduction Equipment Repair Specialist

41K10

41K20

Exhibit Dates: 3/77–Present.

Career Management Field: 81 (Topographic Engineering), *subfield* 813 (Photolithographer).

Description

Summary: Performs maintenance on printing equipment. *Skill Level 10:* Repairs and test-operates printing equipment including duplicators, offset presses, process cameras, bindery, platemaking, stripping and other machines; assists in troubleshooting faulty equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; troubleshoots faulty equipment; schedules and coordinates equipment maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in duplicator operation, 3 in offset press operation, 3 in process camera operation, 3 in bindery operation, and 2 in platemaking operation, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in duplicator operation, 3 in offset press operation, 3 in process camera operation, 3 in bindery operation, 2 in platemaking operation, 3 for field experience in graphic arts, 3 in use and care of testing equipment, 1 in troubleshooting techniques, and credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 21 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in duplicator operation, 3 in offset press operation, 3 in process camera operation, 3 in bindery operation, 2 in platemaking operation, 6 for field experience in graphic arts, 3 in use and care of tools and testing equipment, 3 in troubleshooting techniques, and credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 26 semester hours (5/78).

MOS-42C-001

Brace Specialist

42C20

42C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description

Summary: Supervises or performs the construction, repair, and adjustment of orthopedic prosthetic appliances. *Skill Level 20:* Designs and constructs prosthetic devices such as braces, splints, corsets, and corrective footwear from impressions, blueprints, sketches, or other types of specifications; makes mold of limb or deformity or draws pattern from measurements; cuts and fashions devices from metal, plastic, and leather, using welding equipment, forge, riveting machine, drill, and handtools; fabricates and contructs artificial limbs; fits assembled appliance to patient; repairs, readjusts, and refits worn or defective appliances. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises fabrication and fitting of orthopedic appliances; organizes work schedules and assigns duties; instructs personnel in work techniques and procedures; inspects completed prostheses to insure construction according to specifications; requisitions, stores, and issues equipment and supplies.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in anatomy and physiology, and 2 in shop practices, for a total of 35 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in anatomy and physiology, 3 in human relations, 3 in shop management, and 2 in shop practices, for a total of 41 semester hours (3/76).

MOS-42C-002

Orthotic Specialist

42C10

42C20

42C30

42C40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Designs, fabricates, fits, adjusts, and repairs orthotic devices. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); assists in designing, fabricating, fitting, adjusting, and repairing orthotic appliances; makes impressions of injured body members and fabricates orthotic appliances of metal, plastic, synthetics, resins, plaster, leather, rubber, textiles, and adhesives, using welding, soldering, forging, riveting, sewing, laminating, brazing, woodworking, pattern and template machines and equipment, and all types of power and hand tools; adjusts constructed appliances and fits to patient; repairs, readjusts, reworks, and refits worn and defective appliances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; measures patient in operating room and molds temporary plastic socket; designs, fabricates, and tests experimental devices for which there are no models or standard pattern; adapts techniques to fit local requirements and available equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance for Skill Level 10 and 20 personnel; instructs subordinates in work techniques and procedures; inspects completed appliances. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities; organizes work schedules and assigns duties; supervises the equipment maintenance program; makes sure the shop is safe, clean, and orderly; determines personnel requirements and prepares and conducts training programs; evaluates personnel performance; prepares administrative, technical, and personnel reports; coordinates orthopedic activities with other elements of the medical treatment facility; advises and assists physicians in professional, fiscal, technical, and administrative matters; establishes stock level for supplies and equipment and supervises the requisitioning, storing, and issuing of supplies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 36 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 39 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 3 in human relations, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 42 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 3 in human relations, 3 in personnel supervision, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 45 semester hours. In the upper-division baccalaureate category, 2 semester hours in medical facility management (6/77).

MOS-42D-001

Dental Removable Prosthetic Specialist

42D10
42D20
42D40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description

Summary: Supervises or performs basic and advanced procedures in the fabrication and repair of removable dental prosthetic appliances. *Skill Level 10:* Performs basic procedures in the fabrication and repair of removable and fixed dental prosthetic appliances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs advanced removable dental laboratory techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 20; performs with high degree of competency all dental prosthetic techniques; supervises overall operation of a dental laboratory. NOTE: May have progressed to 42D40 from 42D20 or 42F20 (Dental Fixed Prosthetic Specialist).

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in dental anatomy, 3 in dental materials, 5 in complete dentures, and 5 in removable partial dentures, for a total of 16 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 10 semester hours in fixed and removable prosthesis, 9 in dental laboratory, 5 in complete dentures, 3 in dental anatomy, 3 in dental materials, and 1 in ethics of business management, for a total of 31 semester hours (2/75).

MOS-42D-002

Dental Laboratory Specialist

42D10
42D20
42D30
42D40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 911 (Dental).

Description

Summary: Supervises or performs basic and advanced procedures in fabrication and repair of dental prosthodontic appliances. *Skill Level 10:* Able to perform the duties required for 91E10 (Dental Specialist); performs primary procedures in fabrication and repair of removable and fixed dental prosthodontic appliances; reviews and processes prosthodontic prescriptions and consultation requests; prepares and uses basic dental laboratory materials; fabricates casts from preliminary impressions; fabricates final impression trays for complete, immediate complete, removable, and fixed partial dentures; prepares impressions and pours final casts for complete, immediate complete, removable, and fixed partial dentures; fabricates stabilized and nonstabilized occlusion rims for complete, immediate complete, removable, and fixed partial dentures; replaces missing or broken teeth and repairs fractured bases on complete and removable partial dentures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs basic dental laboratory procedures; uses facebrow and measurements to mount casts on adjustable articulator; employs mold guide, occlusion rims, registrations, markings, and interarch measurements to select denture teeth; fabricates maxillary and mandibular complete dentures using conventional and liquid resin techniques; fabricates immediate complete dentures with surgical templates; fabricates removable partial denture prostheses; modifies dental laboratory techniques to fabricate removable complete and partial dentures for cases with variant interarch and interridge relationships; repairs, relines, rebases, and duplicates removable complete and partial dentures; fabricates and repairs basic orthodontic, pedodontic, periodontic, and surgical appliances; fabricates and repairs conventional fixed partial dentures, including crowns, inlays, and preformed pontics; fabricates transitional fixed partial dentures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs advanced dental laboratory procedures or assists in managing a small dental laboratory; fabricates ceramic and porcelain fused-to-metal crowns and fixed partial dentures; fabricates fixed and removable precision appliances; fabricates complex orthodontic, pedodontic, periodontic, and surgical appliances; assists in fabricating maxillofacial appliances; performs quality control procedures; establishes work priorities and assigns duties; organizes work schedules; demonstrates and explains work techniques and procedures to subordinates; evaluates personnel performance; supervises operational maintenance program of laboratory equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large dental laboratory or a section of a Regional Dental Activity; advises and assists dentists in personnel matters, supply economy procedures, and fiscal, technical, and administrative matters; prepares administrative and technical reports.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and tooth morphology, 1 in dental materials, and 1 in complete dentures, for a total of 4 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 1 in dental anatomy, and 1 in dental materials, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 4 in dental ceramics, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 2 in orthodontic procedures, 2 in dental anatomy, 1 in dental materials, and 1 in dental anatomy (occlusion), and additional credit in personnel supervision, for field experience in management, and in communication skills on the basis of institutional evaluation, for a minimum total of 22 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 4 in dental ceramics, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 2 in orthodontic procedures, 2 in dental anatomy, 2 in personnel supervision, 2 for field experience in management, 2 in oral communication skills, 1 in health care management, 1 in dental materials, and 1 in dental anatomy (occlusion), for a total of 29 semester hours (6/77).

MOS-42E-001

Optical Laboratory Specialist

42E20
42E40
42E50

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description

Summary: Supervises or performs the preparation of prescription lenses. *Skill Level 20:* Makes, duplicates, and inserts prescription lenses in spectacle frames and gas masks. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises optical laboratory operations. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises the functions of the optical laboratory section of a medical depot, providing technical guidance to personnel repairing complex optical equipment; prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics and 12 for an optical internship (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 6 in management and supervision, and 15 for an optical internship, for a total of 24 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 9 in management and supervision, and 15 for an optical internship, for a total of 27 semester hours (2/75).

MOS-42E-002

Optical Laboratory Specialist

42E10
42E20
42E30
42E40
42E50

Exhibit Dates: 9/76–Present

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Makes prescription lenses or supervises optical laboratories. *Skill Level 10:* Makes, duplicates, and inserts prescription lenses; selects proper stock to fill requirements of spectacle prescription; computes and records curvature and thickness and marks lenses for surfacing; prepares lenses for blocking and surfacing; grinds and polishes lenses to prescribed specifications; locates and identifies optical center, optical axis, and cutting line on lenses; chucks lenses for edging; edges lenses to correct size and shape; hardens glass lenses to required impact resistance; selects and assembles frame components; mounts lenses and aligns frames; prepares completed spectacles for shipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; edits prescriptions and maintains records of prescriptions received by optical unit; calculates and records amount of prism required to permit necessary decentration; calculates and records distance required between top of bifocal or trifocal segments and distance-optical-center to produce prescribed segment height; dyes plastic lenses to specified tints; maintains files of completed spectacle prescriptions; prepares surface work sheets for plastic lens surfacing; marks and blocks plastic lenses for surfacing; applies lens coating; calculates and records positional effective lens power; maintains inventory of supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a small optical laboratory; inspects completed spectacles for compliance with prescription requirements and quality standards; assigns duties and trains subordinates in work techniques and procedures; determines stock levels; maintains supply records; requisitions, stores, and issues supplies; supervises preventive maintenance of equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a medium-sized optical laboratory; maintains records of cost data and expenditures; makes sure the laboratory is safe, clean, and orderly; supervises quality control procedures; establishes work priorities; organizes work schedules; evaluates personnel performance; plans layout of working areas; prepares technical, personnel, and administrative reports; coordinates activities of the optical laboratory with medical treatment facilities; advises and assists professionals in fiscal, technical, and administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large optical laboratory; prepares periodic laboratory reports; determines manpower requirements; drafts budget estimates; prepares operating procedures for optical unit.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, and 5 in physics (optics), for a total of 23 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 1 in anatomy and physiology, and 1 in office procedures, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 1 in anatomy and physiology, and 1 in personnel supervision, for a total of 28 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 3 in personnel supervision, 3 for field experience in management, and 1 in anatomy and physiology, for a total of 33 semester hours (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 3 in personnel supervision, 3 for field experience in management, 3 in introduction to management, and 1 in anatomy and physiology, for a total of 36 semester hours. In the upper-division baccalaureate category, 3 semester hours in medical facility management and 3 in management problems (6/77).

MOS-42F-001

Dental Fixed Prosthetic Specialist

42F20

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 42F was discontinued and its functions were incorporated into MOS 42D, Dental Laboratory Specialist).

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description

Able to perform the duties required for 42D10 (Dental Removable Prosthetic Specialist); fabricates and repairs fixed prosthodontic appliances; interprets dentists' prescriptions; pours impressions; prepares models (indices, saws out, and trims dies); waxes, casts, veneers, and finishes crowns and bridges for conventional fixed prostheses; waxes and casts substructures for ceramic crowns and bridges; prepares metal to receive porcelain; applies and bonds porcelain to metal with porcelain furnace; grinds, polishes, and finishes fixed prostheses.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in beginning crown and bridge (conventional) and 5 in advanced crown and bridge (ceramics) (3/76). NOTE: See the recommendation for 42D10 (Dental Removable Prosthetic Specialist) in exhibit MOS-42D-001.

MOS-43E-001

Parachute Rigger

43E20

43E40

43E50

Exhibit Dates: 10/73–2/77.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Is a qualified parachutist; packs personnel parachutes and aircraft cargo; fabricates, assembles, repairs, and rigs airdrop equipment. *Skill Level 20:* Packs and tests personnel parachutes; fabricates, rigs, and assembles airdrop equipment; loads, positions, and secures cargo for airdrop. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and instructs parachute riggers; inspects the work of parachute riggers. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager assisting with planning, coordinating, and supervising all parachute and airdrop activities; normally supervises more than 36 persons.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in parachute inspection and rigging and 5 in airfreight (on-board) management. In the upper-division baccalaureate category, 3 semester hours in technical electives (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in airfreight (on-board) management, and 3 in personnel management, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in technical electives (2/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in airfreight (on-board) management, and 6 in personnel management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in technical electives and 3 in personnel management (2/75).

MOS-43E-002

Parachute Rigger

43E10

43E20

43E30

43E40

43E50

Exhibit Dates: 3/77–Present.

Career Management Field: 76 (Supply and Service), *subfield* 762 (Service).

Description

Summary: Is a qualified parachutist; packs aircraft cargo and personnel parachutes; fabricates, assembles, repairs, and rigs airdrop equipment. *Skill Level 10:* Packs and repairs cargo and personnel parachutes; rigs, fabricates, and assembles airdrop equipment; loads, positions, and secures cargo for airdrops; tests hooks and releases; utilizes repair equipment for parachutists; reads maps; loads, unloads, receives, inspects, inventories, and stores air equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; conducts routine and in-storage inspections of airdrop equipment; tests ripcord and canopy release assemblies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small- and medium-size activities engaged in packing and repairing parachutes and rigging and loading supplies and equipment for airdrop; assigns packers, repairers, riggers, and inspectors; instructs personnel on job requirements and techniques and inspects work in progress; inspects working area to insure a clean and safe working environment; plans and supervises operational equipment maintenance programs; establishes supply requirements; requisitions, stores, and issues supplies and equipment; establishes, develops, and maintains operational and maintenance records and prepares periodic reports; may supervise up to

35 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large activities engaged in packing and repairing parachutes and rigging and loading of supplies and equipment for airdrop; may supervise up to 50 persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in airdrop equipment support company; may supervise more than 50 persons, or serve in staff positions.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours of parachute inspection and rigging, and 1 in map reading (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, or in the lower-division baccalaureate/associate degree category, 5 semester hours of parachute inspection and rigging, 5 in air freight (on-board) management, and 1 in map reading, for a total of 11 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in parachute inspection and rigging, 6 in air freight (on-board) management, and 1 in map reading, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in air freight (on-board) management, 1 in map reading, 2 in technical report writing, 3 in human relations, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, 3 in inventory control, 3 in safety procedures, and 2 in records administration, for a total of 14 semester hours (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in air freight (on-board) management, 1 in map reading, 3 in personnel supervision, 3 in human relations, 2 in technical report writing, and 3 for field experience in management, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, 3 in inventory control, 3 in safety procedures, 3 in records administration, and 3 in introduction to management, for a total of 18 semester hours (5/78).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in personnel management, 6 for field experience in management, 3 in records administration, 3 in inventory control, 3 in safety procedures, and 3 in introduction to management, for a total of 21 semester hours (5/78).

MOS-43J-001

TEXTILE REPAIRMAN

43J10
43J20
43J40

Exhibit Dates: 10/74–2/76. (Effective 3/76, MOS 43J was discontinued and its functions were incorporated into MOS 43M, Fabric Repairman.)

Career Management Field: 57 (Field Services), *subfield* 573 (Textile Renovation).

Description

Summary: Repairs or supervises the repair and alteration of clothing and other textile items. *Skill Level 10:* Assists in repair and alteration of textile items and clothing; operates electric and pedal-driven sewing, stitching, and patching equipment; performs minor repairs and some preventive maintenance on textile repair equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; fabricates and repairs textile items; sizes, fits, and sews worn or damaged clothing; maintains and operates mobile textile repair facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises textile repair personnel; performs complex mending, alteration, and renovation of clothing and textile items; demonstrates and instructs in machine sewing operations; demonstrates the operation of mobile units and other field operations; supervises the maintenance of textile repair equipment and related activities in mobile and fixed shop operations; assigns personnel to work positions; inspects completed work for accuracy; estimates supply requirements.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operation and 4 for field experience in sewing operations (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operation and 6 for field experience in sewing operations (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing and tailoring operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in introduction to management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in introduction to management (11/75).

MOS-43K-001

CANVAS REPAIRMAN

43K10
43K20
43K40

Exhibit Dates: 10/74–2/76. (Effective 3/76, MOS 43J was discontinued and its functions were incorporated into MOS 43M, Fabric Repairman.)

Career Management Field: 57 (Field Services), *subfield* 573 (Textile Renovation).

Description

Summary: Repairs or supervises the repair of canvas and webbed items and related equipment. *Skill Level 10:* Assists in the repair of canvas equipment and canvas and webbed items; operates electric and pedal-driven equipment for repair of canvas covers, tarpaulins, and other canvas and webbed items; performs minor repairs and preventive maintenance on canvas repair equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; fabricates and repairs canvas and webbed items; inspects repairable canvas equipment and webbed items for damage; tests tensile strength of canvas and repairs with approved test equipment; adjusts and performs preventive maintenance on canvas and webbed item repair equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the repair of canvas repair equipment; directs personnel in setting up canvas repair equipment for repair and salvage operations; inspects repaired canvas and webbed items; directs the salvage of canvas and canvas equipment; instructs personnel in repair and salvage techniques; assigns personnel to work positions.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operation and 4 for field experience in sewing operations (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operation and 6 for field experience in sewing operations (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in introduction to management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (11/75).

MOS-43M-001

FABRIC AND LEATHER REPAIR FOREMAN

43M40

Exhibit Dates: 10/73–2/76.

Career Management Field: 57 (Field Services), *subfield* 573 (Textile Renovation).

Description

Serves as fabric and leather foreman; able to perform the duties required for 43J40 (Textile Repairman) or 43K40 (Canvas Repairman); supervises personnel involved in the classification, hand and machine repair and alteration, and fabrication of textile, canvas, clothing, webbed, and leather items; instructs subordinates in repair and salvage procedures and techniques; schedules maintenance of fabric and leather equipment; supervises movement and placement of mobile repair facilities and other field operations; schedules and expedites work schedules of personnel.

Recommendation

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing and tailoring operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in introductory organization management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and administration and 3 for field experience in management (11/75).

MOS-43M-002

FABRIC REPAIRMAN

43M10

43M20

43M40

Exhibit Dates: 3/76–2/77.

Career Management Field: 57 (Field Services), *subfield* 573 (Textile Renovation).

Description

Summary: Repairs or supervises the repair of textile, canvas, or webbed equipment and clothing. *Skill Level 10:* Assists in the repair and alteration of textile items and clothing, canvas equipment, and canvas and webbed items; operates electric and pedal-driven sewing, stitching, and patching equipment; performs minor repairs and some preventive maintenance on canvas repair and textile equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; fabricates and repairs textile, canvas, and webbed items and clothing; inspects repairable canvas equipment and webbed items for damage; sizes, fits, and sews worn or damaged clothing; adjusts sewing machines and replaces minor parts; lubricates equipment and performs preventive maintenance before, during, and after operation. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and instructs in the repair, alteration, and salvage of textile, canvas, and webbed items and clothing; assigns duties and schedules work; inspects completed work for accuracy and quality control; inspects irreparable items to assure that all salvageable parts have been removed; estimates supply requirements; coordinates fabric repair activities and preventive maintenance in mobile and fixed shop conditions; submits progress reports; supervises 15 to 30 fabric repairmen.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operations and 4 for field experience in sewing operations (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operations and 6 for field experience in sewing operations (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing and tailoring operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in human relations, 3 in introductory organization management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and administration and 3 for field experience in management (5/76).

MOS-43M-003

FABRIC REPAIR SPECIALIST

43M10

43M20

43M30

43M40

Exhibit Dates: 3/77–Present.

Career Management Field: 76 (Supply and Service), *subfield* 762 (Service).

Description

Summary: Repairs or supervises the repair of textile and canvas items, webbed equipment and clothing. *Skill Level 10:* Repairs textile and canvas items; determines repair requirements; operates sewing, stitching and patching equipment; performs minor repairs and preventive maintenance on canvas repair and textile equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs quality assurance inspections; inspects, classifies and determines repairability of textile, canvas and webbed items; salvages repairable parts. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and coordinates small- and medium-sized operations and preventive maintenance activities in mobile and fixed textile and canvas repair shops; establishes quality control standards; establishes work schedule and assignments; supervises from 8 to 30 persons; evaluates personnel performance; counsels personnel and prepares evaluation reports; maintains records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large-sized operations and preventive maintenance activities in textile and canvas repair shop; supervises more than 31 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operations and 4 for field experience in sewing operations (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operations and 6 for field experience in sewing operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in power sewing machine operations and 8 for field experience in sewing operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in human relations, and 2 in personnel supervision, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/78).

Recommendation, Skill Level 40

In the vocational certificate category the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in human relations, 3 in introductory organization management, and 2 in personnel supervision, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (5/78).

MOS-44B-001

METAL BODY REPAIRMAN

44B20

44B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Repairs and straightens metal body panels, fenders, and sheet metal parts; repairs radiators and fuel tanks, and modifies related parts and components. *Skill Level 20:* Determines nature and extent of damage and the repairs required; uses hand tools, power tools, and hydraulic jacks; cuts, welds, brazes, and solders body components; disassembles, repairs, reassembles, and installs fuel tanks, radiators, and similar items; prepares surfaces for painting by sanding, masking, and cleaning; selects, matches, and applies paint to surfaces. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the repair, repainting, and installation of metal body components, radiators, and fuel tanks; determines tools, equipment, and work requirements to repair extensive body damages; performs the more difficult tasks such as forming and forging; assigns work and projects to subordinate personnel and inspects their work; conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in basic auto body repair. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair and 3 in basic gas welding, and additional credit on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an auto body repairman apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic auto body repair, 3 in basic gas welding, 3 in shop practices and procedures, and 9 in body refinishing, for a total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair, 9 in body refinishing, 3 in basic gas welding, and 3 in personnel supervision, and additional credit on the basis of institutional evaluation, for a minimum total of 24 semester hours. In an auto body repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction (2/75).

MOS-44B-002

METAL WORKER

44B10

44B20

44B30

44B40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Welds metal articles and parts; repairs, repaints, and installs metal body components, radiators, and fuel tanks, and modifies other related items; supervises machine shop activities. *Skill Level 10:* Welds ferrous and nonferrous metals using oxyacetylene or arc welding equipment; determines nature and extent of damage, repairs required, and the welding methods to be employed by examining shape of parts, type of metal, and thickness of section to be welded; selects appropriate welding rod and flux to produce secure bond; makes butt, corner, edge, lap, tee, tack, and slot welds from flat, vertical, and overhead welding positions; makes body and fender repairs; prepares surfaces for painting by filling, sanding, masking, and cleaning; selects, matches, and mixes paints and applies to surfaces by brushing or spraying; repairs radiators, fuel tanks, and similar items by straightening, soldering, patching, tube rodding and splicing, plugging core sections, replacing cores, and pressure testing of leaks; uses hand tools, measuring devices, metal shears, drills, metal saws, dolly blocks, bending irons, mallets, sanders, and hydraulic jacks. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; demonstrates and performs more difficult phases of working metals by cutting, forming, welding, forging, and brazing; fabricates complex parts. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects incoming work and determines nature and extent of damage to metal parts and subassemblies; schedules, assigns, and coordinates work according to availability and capability of personnel and equipment; instructs subordinate supervisors in applications of maintenance policies, procedures, and work performance; supervises on-the-job training programs; supervises preparation of shop records and reports and the receipt, maintenance, and issue of shop tools, equipment, and parts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs as metalworking foreman, machine shop foreman, or toolmaker foreman. NOTE: May have progressed to 44B40 from 44B30 or 44E30 (Machinist).

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in basic auto body repair and 3 in basic gas welding. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair and 3 in basic gas welding, and additional credit on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an auto body repairman, painter, or radiator repairman apprentice training program, 1,000 clock hours of experience and 220 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In an auto body repairman, painter, or radiator repairman apprentice training program, 2,000 clock hours of experience and 250 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair, 9 in auto body refinishing, and 3 in basic welding, for a minimum total of 21 semester hours; *if the duty assignment was welder foreman or metal worker foreman,* 3 additional semester hours in personnel supervision, for a total of 24 semester hours. In an auto body repairman, painter, or radiator repairman apprentice training program, 3,000 clock hours of experience and 275 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. In an auto body repairman, painter, or radiator repairman apprentice training program, 4,000 clock hours of experience and 300 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-44C-001

WELDER

44C20

44C40

Exhibit Dates: 10/73–8/75. (Effective 9/75, MOS 44C was discontinued and its functions were incorporated into MOS 44B, Metal Worker.)

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Welds ferrous and nonferrous metals in vertical, flat, and overhead positions, using gas, including inert gas, and electric arc equipment; welds butt, corner, edge, lap, tee, tack, and slot joints; brazes and burns metals; uses hand tools, measuring devices, and power equipment such as shears, drills, and metal saws; fabricates complex parts; identifies metals; determines welding method to be used. *Skill Level 20:* Selects proper rod and flux; prepares metal and fastens it securely to prevent warpage and distortion; works from blueprints and sketches. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises welding operations; demonstrates and performs smithing operations; inspects welds for warpage, distortion, cracks, and hardness; lays out complex projects and assigns jobs to subordinate personnel; plans and conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in welding (general). In the lower-division baccalaureate/associate degree category, a minimum of 9 semester hours in welding (general) and additional credit on the basis of institutional evaluation. In a welder (general) apprentice training program, a minimum of 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of a performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in welding (general). In the lower-division baccalaureate/associate degree category, 15 semester hours in welding (general) and additional credit on the basis of institutional evaluation. In a welder (general) apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction; journeyman status achieved through employer or trade association evaluation (2/75).

MOS-44E-001

MACHINIST

44E20

44E30

44E40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Fabricates, repairs, and modifies metallic and nonmetallic parts, using all types of machine tools such as engine lathes, milling machines, boring machines, and grinders; machines pieces according to specifications, tooling instructions, and standard charts, applying knowledge of machine methods; reads blueprints and job orders for product specifications. *Skill Level 20:* Lays out and sets up work; establishes and marks necessary reference points, centerlines, and machining guidelines; computes and sets up proper machine speeds to attain correct cutting speeds, setups, and depth of cut and feed; clamps or fastens work in holding devices or to machines; selects, grinds, and affixes cutting tools; performs toolbit grinding and setting; adjusts and controls machines; checks dimensions of finished work, using measuring devices such as squares, rules, scales, calipers, micrometers, and thread gages; employs shop mathematics, charts, and tables; interprets simple drawings and sketches. *Skill Level 30:* Able to perform the duties required for Skill Level 20; designs, fabricates, modifies and repairs jigs, fixtures, dies, and special tools; sets and adjusts tools; applies heat-treating procedures, including annealing, normalizing, hardening, case hardening, and tempering; works within close precision tolerance of .001 inch; uses standard and nonstandard practices in accomplishing unusual machining jobs; inspects completed work and tests parts to determine proper performance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a fully qualified machinist; sets up and operates machine tools; fits and assembles parts to make or repair mechanisms, tools, or machines; applies knowledge of mechanics, shop mathematics, metal properties, and layout procedures; reads sketches, blueprints, and descriptions of parts; supervises machine operations and determines work request validity; assigns work in accordance with priority of jobs, availability of equipment, and abilities of machinists; inspects equipment and machines to determine condition and supervises adjustments and repairs; enforces safety regulations.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 9 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, a minimum of 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a machinist or a machinist setup operator (2/75).

MOS–44E–002

MACHINIST

44E10
44E20
44E30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Supervises or performs the fabrication, repair, and modification of metallic and nonmetallic parts. *Skill Level 10:* Fabricates, repairs, and modifies metallic and nonmetallic parts to blueprint specifications utilizing such machines as engine lathes, grinders, milling machines, vertical bandsaws, and drill presses and their associated attachments, accessories, and tools; interprets job orders, blueprints, and specifications; lays out and sets up work; establishes and marks necessary reference points, centerlines, and machining guidelines; computes and sets up proper machine speeds to attain correct cutting speeds, setups, and depth of cut and feed; clamps or fastens work in holding devices or to machines; selects, grinds, and affixes cutting tools; performs toolbit grinding and setting; adjusts and controls machines; checks dimensions of finished work, using measuring devices such as squares, rules, scales, calipers, micrometers, and thread gauges; employs shop mathematics, charts, and tables; interprets blueprints and sketches. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs as a machinist and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; designs, fabricates, modifies, and repairs jigs, fixtures, dies, and special tools to facilitate metal working operations; performs as machine shop or toolmaker foreman; determines nature and extent of work to be performed and method of its accomplishment; employs standard practices of machining, such as toolbit angles, proper cutting speeds for various materials, and methods of setting and adjusting tools to suit materials; applies heat-treating procedures, including annealing, normalizing, hardening, case hardening, and tempering; grinds and sharpens tools such as drills, toolbits, and reamers; works to dimensions as precise as tolerances of .001 inch; uses technical instructions in accomplishing unusual machining jobs involving standard and nonstandard practices; converts specifications and instructions to machining operations; inspects completed work and tests parts; requisitions sufficient supplies of expendable tools and materials.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 9 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, a minimum of 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, a minimum of 4,000 clock hours of experience and 288 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, a minimum of 15 semester hours in a machinist or machinist setup operator program, and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist or machinist setup operator program, and additional credit on the basis of institutional evaluation; *if the duty assignment was either machine shop foreman or machine operator foreman,* 3 additional semester hours for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management *only if the duty assignment was either machine shop foreman or machine operator foreman.* In a machinist apprentice training program, a minimum of 6,000 clock hours of experience and 432 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–45B–001

SMALL ARMS REPAIRER
(SMALL ARMS REPAIRMAN)

45B10
45B20
45B30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Supervises or performs repair and limited overhaul of small arms and other infantry weapons. *Skill Level 10:* Cleans components of dirt, rust, and corrosion; lubricates moving parts; disassembles weapons and determines condition of components; measures degree of wear with precision measuring instruments; repairs and refinishes weapons by honing, grinding, sandblasting, degreasing, and soldering; reassembles weapons, makes adjustments, checks dimensions and tolerances, and tests weapons' mechanisms; tests fire weapons; uses common and specialized mechanics tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises inspection, repair, and technical service assistance teams; maintains records; evaluates the condition of small arms and determines the maintenance or repairs required; conducts on-the-job training.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in use and care of hand and power tools, 2 in use and care of precision testing equipment, and additional credit in a mechanical repairman program on the basis of institutional evaluation. In a maintenance mechanic or repairman (gun repairman) apprentice training program 500 clock hours of experience and 70 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In a maintenance mechanic or repairman (gun repairman) apprentice training program, 1,000 clock hours of experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in use and care of hand and power tools, 2 in use and care of precision testing equipment, 2 in personnel supervision, and 1 in records administration, for a minimum total of 7 semester hours, and additional credit on the basis of institutional evaluation. In a maintenance mechanic or repairman (gun repairman) apprentice training program, 1,200 clock hours of experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of institutional evaluation (12/75).

MOS–45J–001

AIRCRAFT ARMAMENT REPAIRMAN

45J20
45J40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 45J was discontinued and its functions were incorporated into MOS 68J, Helicopter Missile Systems Repairer, and MOS 68K, Aircraft Components Repair Supervisor).

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on components and weapons of aircraft armament subsystems. *Skill Level 20:* Performs maintenance on mechanical, electrical, and hydraulic components, and on weapons of aircraft armament subsystems; inspects or performs final checkout of subsystems. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 5 or more persons performing aircraft armament maintenance activities.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision (11/75).

MOS-45K-001

TANK TURRET REPAIRMAN

45K20

45K40

Exhibit Dates: 10/73-8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 636 (Armament Maintenance).

Description

Summary: Performs maintenance on turret mechanisms and weapons of tanks, cupolas, and similar equipment; diagnoses malfunctions; repairs turrets, cupolas, weapons; tests turret systems. *Skill Level 20:* Determines the nature and causes of malfunctions; repairs loading, firing, and recoil mechanisms; repairs turret-cupola hydraulic systems and wiring systems; analyzes and tests continuity of circuits; uses power tools and hand tools; keeps maintenance records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; determines maintenance required; supervises maintenance; establishes work schedules and priorities; conducts on-the-job training; supervises a minimum of five persons. NOTE: May have progressed to 45K40 from 45K20, 45N20 (Tank Turret Mechanic), 45P20 (Sheridan Turret Mechanic), or 45R20 (Missile Tank Turret Mechanic).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in the selection, care, and use of hand and power tools, 1 in hydraulics, and 1 in electrical wiring systems, for a total of 3 semester hours. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation and/or performance examination. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in the selection, care, and use of hand and power tools, 1 in hydraulics, and 1 in electrical wiring systems, for a total of 3 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and training and additional credit on the basis of institutional evaluation. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (2/75).

MOS-45K-002

TANK TURRET REPAIRER
(TANK TURRET REPAIRMAN)

45K10

45K20

45K30

Exhibit Date: 9/75-Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on turret mechanisms and weapons of tanks, cupolas, and similar equipment; diagnoses malfunctions; repairs turrets, cupolas, weapons; tests turret systems. *Skill Level 10:* Determines the nature and causes of malfunctions; repairs loading, firing, and recoil mechanisms; repairs turret-cupola hydraulic systems and wiring systems; analyzes and tests continuity of circuits; rewires circuits; tests and adjusts equipment in accordance with prescribed limits and tolerances; uses power, hand, and special tools and precision instruments; keeps maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and conducts some on-the-job training for Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; determines the category of maintenance required; establishes on-the-job training programs, workload schedules, and priorities; inspects equipment and prepares inspection reports; supervises a minimum of 9 persons. NOTE: May have progressed to 45K30 from 45K20, 45N20 (Tank Turret Mechanic), 45P20 (Sheridan Turret Mechanic), or 45R20 (Missile Tank Turret Mechanic).

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in the selection, care, and use of hand and power tools, 1 in hydraulics, and 1 in electrical wiring systems, for a total of 3 semester hours. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation and/or performance examination. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in the selection, use, and care of hand and power tools, 2 in hydraulics, and 2 in electrical wiring systems, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and additional credit in hydraulics and electrical wiring systems on the basis of institutional evaluation. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in the selection, use, and care of hand and power tools, 2 in hydraulics, and 2 in electrical wiring systems, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management, and additional credit in hydraulics and electrical wiring systems on the basis of institutional evaluation, for a minum total of 6 semester hours. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (12/75).

MOS-45L-001

ARTILLERY REPAIRER
(ARTILLERY REPAIRMAN)

45L10

45L20

45L30

Exhibit Dates: 9/75-Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on artillery turrets, artillery weapons, and similar equipment. *Skill Level 10:* Performs maintenance on light, medium, and heavy self-propelled artillery and turret mechanisms, towed artillery, air defense artillery, and similar equipment; lubricates moving parts; uses common and specialized hand tools; measures tolerances with precision instruments and special tools; applies proper rigging procedures for hoisting heavy equipment and material; traces, tests, repairs, or replaces circuits; inspects equipment and prepares inspection reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; evaluates the condition of equipment to determine the kind of maintenance required; establishes workload schedules and priorities; conducts on-the-job training; inspects the work of subordinates; prepares records, forms, and reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in shop practices and 2 in the care and use of tools and precision equipment, and additional credit in basic electricity on the basis of institutional evaluation. In a millwright apprentice training program, 1,000 clock hours of experience (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in shop practices, 2 in the care and use of tools and precision equipment, 2 in personnel supervision, and 1 in records administration, and additional credit in basic electricity on the basis of institutional evaluation, for a minimum total of 14 semester hours. In a millwright apprentice training program, 1,000 clock hours of experience (12/75).

MOS-45M-001

AIRCRAFT ARMAMENT SUBSYSTEM
MECHANIC

45M20

45M40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 45M was discontinued and its functions were incorporated into MOS 68K, Aircraft Components Repair Supervisor, and MOS 68M, Helicopter Weapon Systems Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft armament subsystems. *Skill Level 20:* Examines armament systems and fire control equipment for malfunctions or defects; determines maintenance required and writes appropriate repair orders; removes, disassembles, repairs, assembles, installs, tests, and adjusts weapons and components; performs modifications, synchronization, boresighting, and alignment; performs final checkout of complete system; keeps records and assists in stocking replacement items. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises aircraft armament maintenance activities; diagnoses unusual malfunctions; establishes maintenance controls and performance standards; conducts on-the-job training.

Recommendation, Skill Level 20

No recommendation because the skills and knowledge are military in nature (2/75).

Recommendation, Skill Level 40

Credit in management and human relations on the basis of institutional evaluation (2/75).

MOS-45N-001

Tank Turret Mechanic

45N10

45N20

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on conventional tank turret/cupola systems. *Skill Level 10:* Inspects, tests, troubleshoots, repairs, and adjusts electrical, hydraulic, fire control, mechanical, and firing systems; replaces components; cleans and lubricates turret/cupola systems; uses schematic diagrams; uses repair parts publications and orders parts. *Skill Level 20:* Able to perform the duties required for Skill Level 10; and provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in hydraulics and 4 in basic electricity, and additional credit in hydraulics, electricity, and mechanics on the basis of institutional evaluation. In an industrial truck mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

The recommendation for educational credit is the same as that for Skill Level 10. In an industrial truck mechanic apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-45P-001

Sheridan Turret Mechanic

45P10

45P20

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on Sheridan tank turret and related equipment. *Skill Level 10:* Inspects, tests, troubleshoots, repairs, and adjusts electrical traversing and elevation system, firing systems, gun launcher system, fire control system, cupola systems, and turret mounted weapons; cleans and lubricates systems; replaces components; uses technical and repair parts publications and electrical diagrams; modifies systems; keeps maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; and provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in basic electricity, and additional credit in basic electricity and mechanics on the basis of institutional evaluation. In an industrial truck mechanic apprentice training program, 1,000 clock hours of experience (electrical) and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

The recommendation for educational credit is the same as that for Skill Level 10. In an industrial truck mechanic apprentice training program, 2,000 clock hours of experience (electrical) and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-45R-001

Missile Tank Turret Mechanic

45R10

45R20

Exhibit Dates: 9/75–Present

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on missile tank turret system and related equipment. *Skill Level 10:* Performs as missile tank turret mechanic; inspects and tests stabilization system, electro-hydraulic elevation and transverse system, recoil system, fire control systems, firing systems, gun launcher system, cupola systems, test equipment, and turret mounted weapons; troubleshoots turret cupola systems with fire control, stabilization, simulator sensor, electrical and air flow filter turret test equipment; troubleshoots, adjusts, removes, and replaces prescribed components of turret systems; cleans and lubricates systems; interprets technical publications; keeps maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; and provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in hydraulics, 4 in basic electricity, and 2 in use and care of testing equipment, and additional credit in hydraulics, basic electricity, and mechanics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an industrial truck mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

The recommendation for educational credit is the same as that for Skill Level 10. In an industrial truck mechanic apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-45Z-001

Armament Maintenance Supervisor (Armament Maintenance Foreman)

45Z40

Exhibit Dates: 9/75–Present

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Supervises, schedules, and assigns work to repair crews engaged in maintenance of all armament materiel; estimates time required to perform specific jobs; procures parts, supplies, and materiel; determines the method of repair or fabrication; applies information contained in technical publications; conducts on-the-job training; applies test and inspection procedures. NOTE: May have progressed to MOS 45Z40 from 45B30 (Small Arms Repairman), 45K30 (Tank Turret Repairman), or 45L30 (Artillery Repairman).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and additional credit on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management (12/75).

MOS-46D-001

Improved Hawk Mechanical Systems Repairman

46D20

46D40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 46D was discontinued and its functions were incorporated into MOS 24L, Improved Hawk Launcher and Mechanical Systems Repairman).

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the electrical, hydraulic, hydropneumatic, mechanical, and electro-mechanical portions of the Improved Hawk system. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines shortcomings and deficiencies with common and system special-design test equipment; performs load-testing, maintenance calibration, and repair of job-related tools and equipment; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, 1 in shop practices, 3 in technical mathematics, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in mechanics, 3 in technical mathematics, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 9 semester hours (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in mechanics, 3 in technical mathematics, 3 in personnel supervision, 3 in human relations, 3 for field experience in management, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education. (2/76).

MOS-46L-001

SERGEANT ELECTRICAL-MECHANICAL REPAIRMAN

46L20
46L40

Exhibit Dates: 10/74-8/77. (Effective 9/77, MOS 46L was discontinued).

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs maintenance on the electrical, mechanical, and hydraulic portions of the Sergeant missile system. *Skill Level 20:* Inspects, tests, aligns, and repairs electrical and mechanical portions of the missile rocket motor, control, fins, and drag brakes; performs maintenance of the azimuth orientation system, less theodolite; inspects, tests, and adjusts items to specific tolerances and determines shortcomings and deficiencies in electrical, mechanical, and hydraulic assemblies with common and system special-design test equipment; removes malfunctioning assemblies; performs calibration and repairs on tools and equipment; provides technical assistance to support units. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in hydraulic laboratory, 2 in basic electricity laboratory, and 2 in systems maintenance, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in hydraulic laboratory, 2 in basic electricity laboratory, and 2 in systems maintenance, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

MOS-46N-001

PERSHING ELECTRICAL-MECHANICAL REPAIRMAN

46N20
46N40

Exhibit Dates: 10/73-8/77.

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 211 (Pershing Missile Repair).

Description

Summary: Supervises or performs routine maintenance on the electrical, mechanical, and hydraulics portions of the Pershing missile system. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines shortcomings and deficiencies in electrical, mechanical, electromechanical, hydraulic, pneumatic, and hydropneumatic assemblies, subassemblies, and circuits, using special-design test equipment; repairs or removes, replaces, and determines the serviceability of defective components and parts; performs quality control measures; performs checkouts and inspections of equipment; prepares maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of 5-15 persons; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in mechanical maintenance. Fully qualified to enter an apprentice training program (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management. Fully qualified to enter an apprentice training program (3/76).

MOS-46N-002

PERSHING ELECTRICAL-MECHANICAL REPAIRER

46N10
46N20
46N30

Exhibit Dates: 9/77-Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 271 (Ballistic/Land Combat Systems Maintenance).

Description

Summary: Supervises or performs maintenance on the electrical, mechanical, and hydraulic portions of the Pershing missile system. *Skill Level 10:* Performs maintenance on the Pershing missile system erecter-launcher, some missile sections, systems structures, missile containers, ground handling equipment, power distribution sets, and related training devices; inspects, tests, and adjusts components to specific tolerances; determines short-comings and deficiencies in electrical, mechanical, electromechanical, hydraulic, pneumatic and hydro-pneumatic assemblies, subassemblies, and circuits with common and system special-design test equipment; removes and replaces defective components and parts; prepares maintenance and supply forms and reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to Skill Level 10 personnel; installs equipment modifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor; organizes and conducts on-the-job training; supervises maintenance and inspection teams; establishes and keeps maintenance records.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and equipment, and credit in electricity, mechanics, and hydraulics on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree of category, 3 semester hours in use and care of tools and equipment and 1 in personnel supervision, and credit in electricity, mechanics, and hydraulics on the basis of institutional evaluation; *if the duty position was Pershing Electrical-Mechanical Supervisor,* 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

MOS-51A-001

CONSTRUCTION AND UTILITIES WORKER

51A10

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 51A was discontinued and its functions were incorporated into MOS 51B, Carpentry and Masonry Specialist; MOS 51C, Structures Specialist; 51N, Water Treatment and Plumbing Systems Specialist; 51R, Electrician; and 52C, Utilities Equipment Repairer.)

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Assists in the performance of various construction and utilities maintenance duties; may have experience in one or more of the following areas: painting, material handling, carpentry, masonry, electricity, sheet metal working, heating and ventilating equipment, refrigeration and air conditioning equipment, water supply, and sewage disposal.

Recommendation

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (12/75).

MOS-51B-001

CARPENTER

51B20

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Fabricates, erects, and maintains wooden articles and structures; examines blueprints, sketches, and drawings; orders materials and tools; performs preventive maintenance on tools and equipment; coordinates carpentry work with journeymen in other fields; assesses damaged articles and structures and determines how to repair them; inspects finished work; explains and demonstrates methods and procedures for construction helpers. NOTE: May have progressed to 51B20 from 51A10 (Construction and Utilities Worker).

Recommendation

In the vocational certificate category, 20 semester hours in carpentry (2/75).

MOS-51B-002

CARPENTRY AND MASONRY SPECIALIST (CARPENTER)

51B10

51B20

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Engineering).

Description

Summary: Performs general and heavy carpentry or masonry duties in fabrication, erection, maintenance, and repair of wooden and masonry structures, and a variety of wooden articles. *Skill Level 10:* Uses basic carpentry tools and materials in building layout, framing, sheathing, fabricating, and roofing wooden structures; assists in erection of rough timber structures such as trestles, bridges, and wharves; assists in repair and renovation of all types of structures; uses basic masonry tools in construction of concrete walls, piers, and columns; places anchor bolts, rebars, and welded wire mesh; mixes mortar to specifications; lays brick and concrete blocks; maintains concrete mixer; cleans, lubricates, and sharpens woodworking and masonry tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10. Provides technical guidance to Skill Level 10 personnel; interprets construction drawings and blueprints; computes material requirements and prepares building layout; constructs wooden or concrete foundation and erects building framework; installs flooring, walls, partitions, exterior siding, roofing, and stairs; fabricates and installs doors, windows, and screens; installs interior finishing such as cabinets, hardware, and wallboard; mixes, pours, finishes, and cures concrete; constructs concrete wall, pier, and column forms; selects mix specifications for mortar and grout; selects brick and concrete block pattern and joint type; installs lintels and finishes joints; cuts, trims, and faces stone, brick, and concrete blocks; installs and finishes tile; maintains carpentry and masonry tools and publications.

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in carpentry, 9 in masonry, and 3 in tool use and care, for a total of 21 semester hours (2/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in tool use and care, 3 in blueprint reading, 3 in applied mathematics, 9 in carpentry, 9 in masonry, and additional credit in carpentry and masonry on the basis of institutional evaluation, for a minimum total of 27 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in blueprint reading, 3 in applied mathematics, and 3 in industrial arts (construction methods), for a total of 9 semester hours (2/80).

MOS-51C-001

STRUCTURES SPECIALIST

51C20

51C30

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Lifts and moves heavy objects, services cargo handling gear, and positions and joins heavy beams, fabricated pieces or trusses, and other structural assemblies. *Skill Level 20:* Serves as a rigger, using various rigging tools and assemblies and a wide combination of rope, wire rope, knots, and handling gear, including block and tackle; makes rough construction drawings. NOTE: May have progressed to 51C20 from 51A10 (Construction and Utilities Worker). *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a structures specialist; reads construction blueprints and other building plans; joins members by using bolts and rivets or by arc welding; uses oxyacetylene torch; performs preventive maintenance on tools and equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in blueprint reading, 2 in use and care of tools, and 2 in rigging, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in blueprint reading, 2 in use and care of tools, 2 in rigging, 2 in welding, 2 in carpentry, and 1 in construction drafting, for a total of 11 semester hours (6/76).

MOS-51C-002

STRUCTURES SPECIALIST

51C10

51C20

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Engineering).

Description

Summary: Fabricates, assembles, erects, and repairs rigging devices, trusses, and other structural assemblies; petroleum pipeline systems; and sheet metal items. *Skill Level 10:* Assists in assembly of items used in construction rigging, construction and installation of petroleum pipelines, pumping stations, and fuel storage facilities, and in fabrication of sheet metal items; selects tackle for hoisting, using fiber rope, wire rope, and chain; assembles shears, derricks, gin poles, tripods, scaffolds, and boatswains chairs; assists in construction of towers, tramways, cable ways, and bridges; assists in erection of prefabricated and pre-engineered buildings; clears and stakes pipeline route; inspects, cleans, and maintains pipefitting, riveting, rigging, and other special tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assembles items used in construction rigging and rigid frame structures; constructs and installs petroleum pipelines, pumping stations, and fuel storage facilities; fabricates sheet metal items; interprets construction plans and blueprints; installs valves, manifolds, pressure regulators and pumps.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in construction blueprint reading, 3 in rigging, and 2 in general technology (tools, riveting, drilling, etc.) for a total of 7 semester hours (2/80).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in construction blueprint reading, 3 in rigging, 2 in general technology, and 4 in general construction, for a total of 11 semester hours (2/80).

MOS-51D-001

MASON

51D20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 51D was discontinued and its functions were incorporated into MOS 51B, Carpentry and Masonry Specialist.)

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Serves as a mason; reads blueprints in order to determine materials required and procedures to be followed; utilizes various tools; prepares proper cement and mortar mix as required and specified; lays blocks and bricks in the construction of foundations and walls; constructs forms and places concrete. NOTE: May have progressed to 51D20 from 51A10 (Construction and Utilities Worker).

Recommendation

In the vocational certificate category, 20 semester hours in masonry. In the lower-division baccalaureate/associate degree category, 12 semester hours in masonry and 3 in mathematics (12/75).

MOS-51E-001

Camouflage Specialist

51E20
51E40
51E50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 51E was discontinued and its functions were incorporated into MOS 12B, Combat Engineer, and MOS 12Z, Combat Engineering Senior Sergeant.)

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Constructs, selects, erects, and places decoys, nets, screens, drapes, and other camouflage devices. *Skill Level 20:* Fabricates camouflage materials and decoys; erects such items by rigging and supports; rigs and hoists them into position using anchors and shears of self design and construction, blocks and tackle, highline, and tramway; builds and erects scaffolds; paints, selects and applies garnishing materials with adhesives, and alters surface textures. NOTE: May have progressed to 51E20 from 51A10 (Construction and Utilities Worker). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; designs and sketches items to be fabricated; requisitions materials and equipment. *Skill Level 50:* Able to perform the duties required for Skill Level 40; interprets and supervises the execution of policy and operation procedures; assists in planning, coordinating, and supervising all company support activities; advises superiors on personnel matters.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in rigging and rough structure fabrication in a millwright or similar curriculum or 2 semester hours in concrete form construction in a carpentry curriculum. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in stage set construction in a drama or broadcasting curriculum (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in stage set construction in a drama or broadcasting curriculum and 2 in introduction to management (12/75).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in stage set construction in a drama or broadcasting curriculum, 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours (12/75).

MOS-51F-001

Pipeline Specialist

51F20
51F40
51F50

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 51F was discontinued and its functions were incorporated into MOS 51C, Structures Specialist; MOS 51H, Construction Engineering Supervisor; and MOS 51Z, General Engineering Supervisor.)

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Constructs and installs pipelines, pumping stations, and fuel storage facilities. *Skill Level 20:* Clears and prepares right-of-way access and terminal sites; assists in the construction of necessary bridges, ditches, and pipeline cradles; assists in assembling pipelines and installs pumping stations; operates pumps, combats petroleum fires, and exercises safety precautions; uses common and specialized tools. NOTE: May have progressed to 51F20 from 51A10 (Construction and Utilities Worker). *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of 15–25 persons; assists in planning pipeline systems; selects pumping station sites and supervises construction and equipment installation; reads blueprints, topographical maps, profile maps, and performance flow charts; supervises work crews and coordinates activities with surveying personnel; inspects completed projects; assists in the demolition of pipeline facilities; conducts on-the-job training; demonstrates and explains pipeline installation and operation; prepares reports pertaining to operations, training, and intelligence. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager, serving as first sergeant of a company of up to 120 persons; plans, coordinates, and supervises all company activities; advises company commander on all enlisted personnel matters and is responsible for all enlisted personnel actions; conducts meetings with subordinate supervisors; directs company administration; initiates corrective actions when necessary; directs training; may also serve as chief instructor in a formal training facility.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in heavy equipment operation, 1 in use and care of tools, 1 in pump maintenance, 1 in fire safety, and 1 in first aid, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment operation, 2 in construction methods, 1 in fire safety, and 1 in first aid, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in heavy equipment operation, 2 in blueprint and map reading, 1 in use and care of tools, 1 in pump maintenance, 1 in fire safety, and 1 in first aid, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in construction management, 3 in personnel supervision, 3 in human relations, 2 in principles of fluid hydraulics, 2 in blueprint and map reading, 2 in heavy equipment operation, 2 in construction methods, 1 in fire safety, and 1 in first aid, for a total of 19 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 for field experience in management, 3 in personnel management, and 3 in construction management for a minimum total of 12 semester hours; and, *if the duty assignment was chief instructor at a formal training facility,* 3 additional semester hours for an internship in education, for a total of 15 semester hours (6/76).

MOS-51G-001

Soils Analyst

51G20

Exhibit Dates: 10/73–2/78.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Surveys, samples, tests, analyzes, evaluates, and classifies soil and aggregates; studies soils with respect to origin, distribution, and composition; performs physical testing and experimental work in field and laboratory to determine engineering characteristics of soils and construction materials such as concrete, aggregate, bituminous, and other base materials; classifies soils according to standard engineering classifications; designs pavement mixes and inspects construction; investigates problems of stabilization and drainage of soils used as foundations for roads, dams, buildings, and other structures; advises on soil use in construction.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in soils, aggregates, and mix design, and 5 in soils, bituminous, and concrete laboratory (12/75).

MOS-51G-002

Materials Quality Specialist (Soils Analyst)

51G10
51G20

Exhibit Dates: 3/78–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Technical Engineering).

Description

Summary: Surveys, samples, tests, evaluates, and classifies soils and aggregates; investigates and recommends solutions for soil stabilization; designs pavement mixes and inspects construction. *Skill Level 10:* Surveys, samples, tests, analyzes, evaluates, and classifies soils and aggregates; studies soils with respect to origin, distribution, and composition; perfoms physical testing and experimental work in the field and laboratory to determine engineering characteristics of soils and construction materials such as concrete, aggregates, bituminous, and other base materials; classifies soils according to standard engineering classifications. *Skill Level 20:* Able to perform tasks required for Skill Level 10; designs pavement mixes and inspects construction; inspects and investigates problems of stabilization and drainage of soils used as foundations for roads, dams, buildings, and other structures; advises on soil use in construction.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in soil and concrete testing laboratory, 3 in soil classification, 3 in concrete mix design, and 3 in bituminous mix design, for a total of 12 semester hours. In the lower-division baccalureate/associate degree category, 3 semester hours in soil and concrete testing laboratory (2/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in soil and concrete testing laboratory, 3 in soil classification, 3 in concrete mix design, 3 in soil stabilization, and 3 in bituminous mix design, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in soil and concrete testing laboratory, 3 in concrete and bituminous mix design, and 3 in soil engineering, for a total of 9 semester hours (2/80).

MOS-51H-001

CONSTRUCTION FOREMAN

51H40

51H50

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Supervises construction and repair of structures and facilities such as barracks, warehouses, sheds, jetties, wharves, fixed bridges, and storage tanks. *Skill Level 40:* Estimates runoff for drainage areas, supply needs, and time requirements for construction projects; estimates utilities requirements for various types of structures; computes stresses; employs heavy construction equipment, standard construction techniques, and general engineering principles in projects; reinforces existing structures to correct faulty construction or to increase load capacity; enforces safety regulations; has responsibility for on-site utilization and supervision of personnel. NOTE: May have progressed to 51H40 from 51B20 (Carpenter), 51C30 (Structures Specialist), 51D20 (Mason), 51G20 (Soils Analyst), 51R20 (Electrician), or 81B20 (Construction Draftsman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, and supervises activities pertaining to organization, training, and technical operation of a construction company; assists in planning construction procedures, specifications, and work schedules, and in determining materiel needs; schedules use of heavy equipment; conducts on-the-job training by adapting training guides, programs, and tests to fit needs; keeps records of construction projects and training. NOTE: May have progressed to 51H50 from 51H40, 51P40 (Utilities Foreman), 62N50 (Construction Machine Supervisor), 82B40 (Construction Surveyor), or 00B40 (Diver).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in technical writing, 3 in industrial technology, 3 in human relations, and 3 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in records administration, 3 in technical mathematics, 3 in technical writing, 3 in industrial technology, 3 in human relations, and 3 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 9 semester hours in construction management, or 3 semester hours in introduction to management and 6 for field experience in management, for a total of 9 semester hours, and additional credit in management on the basis of institutional evaluation (12/75).

MOS-51H-002

CONSTRUCTION ENGINEERING SUPERVISOR (CONSTRUCTION FOREMAN)

51H30

51H40

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Engineering).

Description

Summary: Supervises construction and repair of buildings, warehouses, fixed bridges, port facilities, and petroleum pipelines, and tanks and related equipment. *Skill Level 30:* Supervises construction and repair operations involving single structures or designated elements of military complexes, port facilities, or pipeline systems; provides direct supervision to personnel performing duties of carpentry and masonry specialists and of structural specialists; reads and interprets construction drawings; estimates material, time, utility, and labor requirements; computes material stress factors under varying conditions; directs earth-moving machines during minor clearing and leveling operations; inspects structures and facilities to ensure compliance with specifications and quality of workmanship; reinforces existing structures to correct faulty construction or increase load capacity; supervises construction rigging operations; assists in planning pipeline systems and supervises installation and repair of pipelines, pumping stations, and storage tanks; conducts on-the-job training; directs operator maintenace on assigned vehicles; supervises performance of electrical and plumbing services on construction and repair projects. NOTE: May have progressed to 51H30 from 51B20 (Carpentry and Masonry Specialist) or 51C20 (Structures Specialist). *Skill Level 40:* Supervises construction and repair projects involving simultaneous operation of several small elements; interprets complex construction drawings and specifications; devises network flow diagrams, such as critical path method for company-size or smaller projects; schedules work and equipment; prepares bills of material or material take-off lists; requisitions construction materials; records and reports construction progress; coordinates work activities of supporting units; ensures compliance with directives, construction drawings, specifications, and verbal orders; develops and supervises vehicle and equipment operator maintenance program.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in blueprint reading, 3 in construction methods, and 3 in personnel supervision, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (2/80).

Recommendation, Skill Level 40

In the lower-division baccalaureate degree category, 3 semester hours in technical mathematics, 3 in blueprint reading, 3 in construction methods, 3 in personnel supervision, 3 in records administration, 3 in construction project planning, and 3 in technical report writing, for a total of 21 semester hours (2/80). In the upper-division baccalaureate degree category, 3 semester hours in personnel management, 3 in construction project management, 3 in introduction to management, and 6 for field experience in management, for a total of 15 semester hours (2/80).

MOS-51J-001

HEATING AND VENTILATING SPECIALIST

51J20

51J30

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 51J was discontinued and its functions were incorporated into MOS 51C, Structures Specialist, and MOS 52C, Utilities Equipment Repairer.)

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Summary: Fabricates, assembles, erects, and repairs sheet metal items of tin, copper, terneplate, and metal alloy stock. *Skill Level 20:* Reads blueprints; selects, lays out, cuts, and bends metal stock; beads sheet metal pieces; joins metal sections, utilizing slip joints, rivets, nails, bolts, solder, and weld; uses hand tools and power machines. NOTE: May have progressed to 51J20 from 51A10 (Construction and Utilities Worker). *Skill Level 30:* Able to perform the duties required for Skill Level 20; installs and repairs heating units and nonrefrigerated air conditioning and ventilating units; heating units may be gas, oil, or coal fired, using hot air, steam, or hot water to transfer heat; works with other tradesmen in installing electrical controls, blower units, and air ducts.

Recommendation, Skill Level 20

In the vocational certificate category, 20 semester hours in a sheet metal program. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical math, 2 in blueprint reading, 3 in sheet metal laboratory, and 1 in care and use of hand and power tools, for a total of 9 semester hours (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 20 semester hours in a sheet metal program or 15 semester hours in a heating program. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial technology, 3 in technical math, 3 in sheet metal laboratory, 2 in blueprint reading, 2 in heating laboratory, and 1 in care and use of hand and power tools, for a minimum total of 14 semester hours, and additional credit in applied science and personnel supervision on the basis of institutional evaluation (12/75).

MOS-51K-001

PLUMBER

51K20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 51K was discontinued and its functions were incorporated into MOS 51N, Water Treatment and Plumbing Systems Specialist.)

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Installs and repairs pipe systems and fixtures for water, gas, steam, petroleum, compressed air, and disposable systems for water and waste; cuts, connects, and seals joints; suspends, lays, or insulates cast iron and steel pipe, copper tubing, fiber, cement, or other pipe, and tests for leaks; determines correct pipe and tubing sizes, fitting requirements, proper venting and slopes for flow or drainage; plans work on the basis of furnished construction drawings, specifications, or sketches, using appropriate reference material to select required tools and materials; inspects, maintains, and repairs plumbing systems, including valves and other mechanisms, ruptured pipes and tubing. NOTE: May have progressed to 51K20 from 51A10 (Construction and Utilities Worker).

Recommendation

In the vocational certificate category, 34 semester hours in a plumbing program. In the lower-division baccalaureate/associate degree category, 24 semester hours in a plumbing program or sanitation technology curriculum (12/75).

MOS-51L-001

Heating and Cooling Specialist

51L20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 51L was discontinued and its functions were incorporated into MOS 52C, Utilities Equipment Repairer.)

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Installs, maintains, regulates, adjusts and repairs conventional refrigeration equipment, general purpose air conditioning units, and multifuel forced air heaters; disassembles major components, removes and replaces faulty individual parts, and reassembles; repairs electric wiring in control circuits and repairs electro-mechanical controls; prepares and tests brine solutions; performs preventive maintenance on equipment, and organizational maintenance on gasoline engines; utilizes safety procedures applicable to toxic gases, pressurized components, and electricity; instructs other personnel in operation of equipment. NOTE: May have progressed to 51L20 from 51A10 (Construction and Utilities Worker).

Recommendation

In the vocational certificate category, 20 semester hours in heating and air conditioning. In the lower-division baccalaureate/associate degree category, 12 semester hours in heating and air conditioning, and additional credit in physical sciences, general mathematics, and supervision on the basis of institutional evaluation (12/75).

MOS-51M-001

Firefighter

51M20
51M40

Exhibit Dates: 10/73–2/78.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Serves as chief or member of a firefighting unit. *Skill Level 20:* Operates all types of extinguishers; knows which extinguishers to use for different types of fires; employs demolition methods when necessary; rescues trapped or injured personnel; administers first aid; employs explosion hazard meter as necessary; records firefighting equipment; maintains equipment in operable condition. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and directs firefighting and rescue units; identifies types of fires; supervises the administration of first aid; supervises maintenance of firefighting and rescue equipment to ensure proper operating condition; inspects for fire regulation violations; recommends and enforces fire prevention regulations; inspects buildings, facilities, and installations that have been damaged by fire to determine the cause of the fire; prepares recurring and special fire reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours in introduction to fire science and fire prevention and 1 in first aid (2/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 24 semester hours in introduction to fire science and fire prevention, 3 in first aid, 3 in communication skills, and additional credit in fire science and fire prevention on the basis of institutional evaluation, for a minimum total of 30 semester hours (2/75).

MOS-51M-002

Firefighter

51M10
51M20
51M30
51M40

Exhibit Dates: 3/78–Present.

Career Management Field: 51 (General Engineering), *subfield* 513 (Fire Protection).

Description

Summary: Supervises or performs firefighting, rescue, salvage and fire protection operations. *Skill Level 10:* Operates all types of fire extinguishers for different types of fires; administers first aid; performs basic firefighting duties, including selection of nozzles and hoses for applying water or fog stream on various types of fires; maintains firefighting equipment; operates firefighting vehicles. *Skill Level 20:* Able to perform duties required for Skill Level 10; conducts performance-oriented training sessions; performs as general crew chief in firefighting and investigation of fires. *Skill Level 30:* Performs the duties of fire chief/fire inspector; supervises fire prevention and equipment maintenance; monitors and evaluates training procedures; inspects for fire regulation violations; serves as principal noncommissioned officer of fire company or team chief of crash rescue team, consisting of four or more persons. *Skill Level 40:* Performs the same critical duties as Skill Level 30. In addition: supervises and directs firefighting and rescue units; identifies types of fires, recommends and enforces fire prevention regulators; inspects building facilities and installations after fires to determine damage and cause of fires; maintains records and reports; supervises two or more fire companies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, and 1 in first aid (2/80).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire prevention, and 2 in first aid, for a total of 8 semester hours (2/80).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 6 in fire prevention, 2 in first aid, 3 in fire investigation and 3 in fire administration, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management (2/80).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 6 in fire prevention, 2 in first aid, 6 in fire investigation, 6 in fire administration, 3 in technical report writing or communications, for a total of 26 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, and 3 for field experience in management (2/80).

MOS-51N-001

Water Supply Specialist

51N20
51N40
51N50

Exhibit Dates: 10/73–2/78.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Summary: Produces and distributes potable water to supported field units. *Skill Level 20:* Checks sources of water for suitability; tests and analyzes raw water samples for contamination and other characteristics and identifies necessary treatments; sets up and operates mobile or portable water treatment equipment; checks and controls the process of water purification, including sedimentation, coagulation, pH value, turbidity, chlorination, and filtration; prepares standard solutions for water tests; operates pumps, engines, and vehicles; makes appropriate adjustments, replaces defective water-related components and performs preventive maintenance tasks; makes connections for distribution of purified water to users and maintains supply. NOTE: May have progressed to 51N20 from 51A10 (Construction and Utilities Worker). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; locates suitable water sources and determines potential supply volume; verifies suitability of actions taken by subordinates in testing, analysis, and treatment of water; supervises the installation, operation, and maintenance of equipment for production and distribution of potable water; prescribes standard or special methods as required; instructs and supervises the training of subordinates, evaluates their performance, and employs personnel management techniques. *Skill Level*

50: Able to perform the duties required for Skill Level 40; assists in planning, coordinating, and supervising all company support activities; advises superiors on personnel matters.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in water supply and purification. In the lower-division baccalaureate/associate degree category, 3 semester hours in water supply and pollution control (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in water supply and purification. In the lower-division baccalaureate/associate degree category, 3 semester hours in water supply and pollution control and 2 in introduction to management (12/75).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in water supply and purification. In the lower-division baccalaureate/associate degree category, 3 semester hours in water supply and pollution control, 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (12/75).

MOS-51N-002

WATER TREATMENT AND PLUMBING SYSTEMS SPECIALIST (WATER SUPPLY SPECIALIST)

51N10

51N20

51N30

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Summary: Produces and distributes potable water to support field units. *Skill Level 10:* Installs and repairs pipe systems, plumbing fixtures and equipment, and assists in set-up, operation, and maintenance of field water points; must be able to identify types and quantities of materials used and know layout of plumbing fixtures; connects and installs appropriate pipes, valves, couplings, and fittings; installs sanitary fixtures, including all plumbing components; assists in field-site preparation, set-up, and maintenance of water purification, storage, and distribution systems; operates and maintains water production equipment and performs basic water analysis tests. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower skill level personnel; develops field water sources and water points; operates varied and complex water treatment equipment and produces potable water; analyzes raw water and treated water for various contaminants and determines chemical content and physical characteristics; operates fixed waste-water-treatment facilities; chemically treats waste; performs all organizational maintenance necessary for proper performance of water and waste-water-treatment equipment, including basic electrical, mechanical, hydraulic, and pneumatic control devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises installation, operation, and maintenance of water supply and waste-water-treatment plants and systems; is responsible for the management, repair, and supply and administration of the facilities and prepares reports incident to the proper operation of the treatment systems.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in water purification and 3 in waste treatment, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in water purification (2/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in water purification, 3 in waste treatment, 3 in water and sewage facilities operation, and 3 in utility plumbing, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in water purification and 3 in water supply (2/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in water purification, 3 in waste treatment, 3 in utility plumbing, and 6 in water and sewage facilities operation, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in water purification, 3 in water supply, 3 in personnel supervision, and 3 for field experience in supervision, for a total of 12 semester hours (2/80).

MOS-51P-001

UTILITIES FOREMAN

51P40

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Plans and supervises the construction, installation, maintenance, and repair of water supply, waste disposal, electrical service, refrigeration, heating, and ventilation systems; estimates material, manpower, and equipment requirements; advises personnel on technical problems encountered; performs or supervises related administrative activities. NOTE: May have detailed knowledge of one or more of the following areas: heating and ventilating, plumbing, heating and cooling, and industrial gas production, through previous MOS experience in the general engineering career management field (51).

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in industrial arts, 3 in technical mathematics, 3 in industrial technology (utilities maintenance), and 3 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 6 semester hours in utilities construction management, or 3 semester hours in introduction to management and 3 for field experience in management (12/75).

MOS-51P-002

UTILITIES ENGINEERING SUPERVISOR (UTILITIES FOREMAN)

51P40

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Supervises installation, operation, maintenance, and repair, and conducts inspections, of utilities systems, including water and sewage treatment plants, interior/exterior electrical distribution systems, buildings and grounds (including roads and streets), air-conditioning and refrigeration, and power generation equipment; may have detailed knowledge of one or more of the above systems; solves installation and maintenance problems; analyzes utility systems; prepares the utility budget and operation and maintenance reports. NOTE: May have progressed to 51P40 from 51R30 (Electrician) or 51N30 (Water Treatment and Plumbing Systems Specialist).

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in industrial arts, 3 in technical mathematics, 3 in industrial technology (utilities maintenance), and 6 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours in utilities construction management and 6 for field experience in management (2/80).

MOS-51Q-001

TERRAIN ANALYST

See the exhibit for MOS 81Q.

MOS-51R-001

ELECTRICIAN

51R20

51R30

51R40

51R50

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

NOTE: The scope of duties performed in this MOS varies considerably throughout the Army; duties performed may include installation, inspection, maintenance, and repair on low- and high-voltage electrical systems in building and electrical distribution systems. *Skill Level 20:* Duties may include performing user maintenance on electrical test equipment and tools; performing minor maintenance on small electrical motors, generators, and controllers; performing elementary algebraic electrical calculations of voltage, current, resistance, and power; serving as marine electrician aboard vessels; installing low-voltage electrical lighting and some outside distribution apparatus and hardware such as cables, conduits, outlets, panels and poles, crossarms, insulators, and conductors; taking emergency action in the event of injury to other persons. NOTE: May have progressed to 51R20 from 51A10 (Construction and Utilities Worker). *Skill Level 30:* Duties may include those required for Skill Level 20 and installing, maintaining, inspecting, and repairing high-voltage electrical transmission systems; erecting poles and towers for power transmission and maintaining auxiliary equipment; estimating size and capacity of conductors and transformers to serve a specific area; performing cable tests for malfunctions and splicing cable; using electrical instruments to measure voltage, current, and phase angle; using and testing hotline protective equipment; taking emergency action in case of injury, including first aid for electrical shock. *Skill Level 40:* Duties may include those required for Skill Level 20 or 30 and supervising the installation, maintenance, and repair of high-voltage electric transmission systems; advising on complex construction work, sequence of work operations, and work procedures; instructing subordinates in erection and maintenance of high-voltage electric transmission systems; planning complete installation for wiring of buildings. *Skill Level 50:* Duties may include those required for Skill Level 40 and serving as a first-line supervisor or mid-level manager; establishing workloads and maintenance priorities; implementing quality control measures; conducting on-the-job training; providing technical assistance; serving as the personnel director for over 50 persons.

Recommendation, Skill Level 20

Credit in basic electricity on the basis of institutional evaluation. Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity. In the upper-division baccalaureate category, 6 semester hours in industrial electricity and electronics (in programs preparing students for careers as power use advisors, electrical equipment sales agents, and company technical representatives), and 2 in introduction to management, for a total of 8 semester hours. Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 40

The recommendation for educational credit is the same as that for Skill Level 30 plus, in the upper-division baccalaureate category, 3 additional semester hours in industrial electricity and electronics and 2 in introduction to management, for a total of 8 semester hours. Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity. In the upper-division baccalaureate category, 6 semester hours in industrial electricity and electronics (in programs preparing students for careers as power use advisors, electrical equipment sales agents, and company technical representatives). 3 for field experience in management, for a total of 12 semester hours. Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS-51R-002

Electrician

51R10
51R20
51R30

Exhibit Dates: 3/78–Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Summary: Supervises or performs installation and maintenance of electrical systems and equipment. *Skill Level 10:* Installs interior electrical systems and equipment, using conduit, service wire, fuse panels, switches, outlets, junction and outlet boxes; installs service entrances and lighting fixtures; checks operational condition of circuits, using test equipment; splices and tapes conductors; if exterior lineman experience is included, also performs the following duties: assists in exterior electrical construction and service. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises installation; inspects and maintains interior electrical systems; interprets plans; makes sketches of wiring diagrams, specifications, and blueprints; inspects interior system components for compliance with specifications; installs and maintains electric motors and controls; if exterior lineman experience is included, also performs the following duties: maintains exterior electrical distribution systems and equipment; serves as exterior lineman; erects service poles; installs crossarms, insulators, primary conductors, transformers, and service drops; uses components and tools for hotline maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20. Supervises installation, maintenance, and repair of interior electric distribution systems and equipment; estimates manpower and equipment requirements and prepares bills of materials necessary for electrical construction; plans work assignments; supervises maintenance of special-purpose safety equipment and tools during electrical construction; if exterior lineman experience is included, also performs the following duties: supervises installation of underground electrical distribution systems.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (2/80).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in industrial electricity, and 3 in industrial motors and controls, for a total of 9 semester hours (2/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in industrial electricity, 3 in industrial motors and controls, 3 in industrial electrical and distribution systems, 3 in electrical blueprint reading, and additional credit in related electrical courses on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in industrial electricity, 3 in industrial motors and controls, 3 in industrial electrical and distribution systems, 3 in electrical blueprint readings, 2 in personnel supervision, and additional credit in related electrical courses on the basis of institutional evaluation, for a minimum total of 17 semester hours (2/80).

MOS-51T-001

Technical Engineering Supervisor

51T30
51T40

Exhibit Dates: 3/78–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Technical Engineering).

Description

Summary: Supervises or participates in construction site development, including technical investigation surveying, development of construction plans and specifications, and performing quality control inspections. *Skill Level 30:* Supervises technical engineering relating to construction surveying, drafting, and testing of construction materials. Conducts surveys and preliminary engineering inspections. Prepares layouts and detail drawings of pavements, structures, buildings, and utility systems from sketches and specified design criteria. Assists in inspection of all phases of construction and repair. NOTE: May have progressed to 51T30 from 51G20 (Materials Quality Specialist), 82B (Construction Surveyor), or 81B (Technical Drafting Specialist). *Skill Level 40:* Performs duties shown in preceding level of skill and provides technical guidance to lower skill level personnel; plans and supervises preparation and layout of drawings; performs simple load calculations to ensure construction of safe facilities; prepares network flow diagrams, such as critical path method.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in civil engineering technology, 3 in materials testing, 3 in introduction to surveying, 3 in personnel supervision and 6 in engineering drafting, for a total of 18 semester hours (2/80).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as the for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in engineering management and 6 in construction project planning (2/80).

MOS-51Z-001

General Engineering Supervisor

51Z50

Exhibit Dates: 3/78–Present.

Career Management Field: 51 (General Engineering), *subfield* 510 (General Engineering).

Description

Provides staff supervision to units engaged in structural building and repair and provisions of water and utilities services; serves as principal noncommissioned officer in an engineering combat (heavy) company or in an engineer combat battalion; may serve in an engineer section at engineer brigade or higher headquarters; directs and coordinates activities of staff personnel to insure proper integration of all construction and utility operations; assists in appraisal of training status, construction planning, and material requests; inspects structural facilities and water and utility production and distribution systems; supervises performance of combat engineer missions. NOTE: May have progressed to 51Z50 from 51T40 (Technical Engineering Supervisor), 52E40 (Prime Power Production Specialist), 51P40 (Utilities Engineering Supervisor), 51M40 (Firefighter), 51H40 (Construction Engineering Supervisor), 00B40 (Diver), 62N40 (Construction Equipment Supervisor), or 53B40 (Industrial Gas Production Specialist).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in records administration, 3 in technical mathematics, 3 in technical writing, 3 in industrial technology, 3 in human relations, and 3 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate/category, 6 semester hours in construction management, 3 in personnel management and 6 for field experience in management, and additional credit in engineering and management on the basis of institutional evaluation, for a minimum total of 15 semester hours (2/80).

MOS-52B-001

Power Generation Equipment Operator/Mechanic

52B20

52B30

Exhibit Dates: 10/73-9/74.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Operates and performs routine maintenance on general and multipurpose portable generator sets. *Skill Level 20:* Operates and performs preventive maintenance on portable generators, arc welders, and frequency converters equipped with electric motors or with diesel or gas engines; uses mechanical and electrical handtools, and measuring and testing devices; computes voltage, amperage, and resistance; computes electrical power requirements, selects number of generators needed; determines phase rotation and load cable sizes; starts and synchronizes generators and sets control devices to attain power output; keeps maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs organizational maintenance on multipurpose portable generators, frequency converters, switch gear, load bands, control panels; uses special tools and test equipment; troubleshoots, adjusts, diagnoses, and replaces assemblies.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in power plant operation. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation. In a power plant operator apprentice training program, 1,000 clock hours of experience and 262 contact hours of related instruction (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in power plant operation. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation. In a power plant operator apprentice training program, 6,000 clock hours of experience and 300 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS-52B-002

Power Generation Equipment Operator/Mechanic

52B10

52B20

52B30

Exhibit Dates: 10/74-2/78. (Effective 3/78, MOS 52B was discontinued and its functions were incorporated into MOS 52D, Power Generation Equipment Repairer and MOS 63B, Power Generation and Wheel Vehicle Mechanic.)

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Operates and performs routine maintenance on general and multipurpose portable generator sets. *Skill Level 10:* Performs as substation electrical helper or power generation helper; performs routine tests and minor repairs on motors, generators, starting and control equipment, and auxiliary equipment; applies fundamentals of AC and DC electricity to motors and generators; loads and unloads tools and equipment; performs preventive maintenance on equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates and performs maintenance on general purpose portable generators, arc welders, frequency converters equipped with AC or DC electric motors, diesel or gasoline engines, and auxiliary equipment; performs mechanical and electrical installations, adjustments, maintenance repairs, or modifications; applies fundamentals of electronics and mechanics; interprets technical manuals and traces schematic diagrams; performs diagnostic tests with specified electronics and pneumatic measuring instruments, including multimeters, amp probes, diode and transistor tester, tachometers, motor-generator testers, pressure guages, and engine-timing equipment; monitors engine and generator operation with the use of various tachometers, voltmeters, current meters, frequency meters, and watt meters; makes the necessary adjustments required to bring engines, generators, and loads within specified values for balanced and efficient operation; employs various mechanic's and electrician's handtools; keeps maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; troubleshoots, adjusts, diagnoses, replaces modules, and performs operational tests on equipment; performs maintenance on multi-purpose auxiliary generators, frequency converters, switch gears, load bands, control panels, and equipment; may supervise up to 15 subordinate personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in basic mathematics, 2 in basic electricity theory and laboratory, 2 in fundamentals of combustion engines, 2 in fundamentals of diesel engines, 2 in generator/motor theory and laboratory, 2 in AC electrical principles and 2 in power generator systems, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in power mechanics, 2 in applied electricity, and 2 in applied mechanics, for a total of 9 semester hours. Advanced standing in a power plant operator (electric power and light) apprentice training program on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic electricity theory and laboratory, 4 in power generator systems, 2 in basic mathematics, 2 in fundamentals of combustion engines, 2 in fundamentals of diesel engines, 2 in generator/motor theory and laboratory, 2 in AC electrical principles, and 2 in safety, for a total of 20 semester hours. In the lower division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in power mechanics, 3 in applied electricity, and 3 in applied mechanics, for a total of 12 semester hours. In a power plant operator (electric power and light) apprentice training program, 1,000 clock hours of experience and 300 contact hours of related instruction (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in power mechanics, 3 in applied electricity, and 3 in applied mechanics, and additional credit in personnel supervision and human relations on the basis of institutional evaluation, for a minimum total of 12 semester hours. In a power plant operator (electric power and light) apprentice training program, 6,000 clock hours of experience and 300 contact hours of related instruction. Journeyman status achieved through employer trade association performance examination (6/76).

MOS-52C-001

Power Pack Specialist

52C20

Exhibit Dates: 10/73-2/78.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Able to perform the duties of 52B30 (Power Generation Equipment Operator/Mechanic); operates and performs maintenance on gas turbine driven generator sets and power pack units; diagnoses, troubleshoots, repairs, inspects, adjusts, and test-operates equipment; uses voltmeters and ohmmeters; may perform maintenance on related equipment, including internal-combustion engines and refrigeration and air conditioning equipment; applies theory of generators, pneumatics, hydraulics, and multiphase power production; reads electrical schematics and uses engine analyzers.

Recommendation

In the vocational certificate category, 4 semester hours in basic electrical theory and laboratory, 4 in power generator systems, 2 in basic mathematics, 2 in fundamentals of combustion engines, 2 in fundamentals of diesel engines, 2 in generator/motor theory and laboratory, 2 in AC electrical principles, and 2 in safety, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in power machanics, 3 in applied electricity, and 3 in applied mechanics, and additional credit in personnel supervision and human relations on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an industrial maintenance electrician apprentice training program, 6,000 clock hours of experience and 300 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (6/76).

MOS-52C-002

Utilities Equipment Repairer

52C10
52C20
52C30

Exhibit Dates: 3/78–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on heating and cooling equipment and associated equipment. *Skill Level 10:* Operates and performs maintenance on gas turbine driven generator sets and power pack units; inspects, diagnoses, troubleshoots, repairs, adjusts and test-operates equipment; uses electrical and mechanical test equipment, such as ohmmeters, voltmeters, and engine analyzers; performs maintenance on related equipment, including internal-combustion engines, and refrigeration and air conditioning equipment; applies theory of generators, pneumatics, hydraulics, and multi-phase power production; reads electrical schematics and mechanical drawings. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower skill level personnel; determines extent of repair and overhaul required; diagnoses and isolates unusual malfunctions; purges and recharges refrigeration systems; repairs and installs heating, refrigerating and air conditioning equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects operational condition of equipment and systems; requisitions, stores, inventories, and issues special tools, test equipment, components, supplies, and provides necessary publications; prepares operation and maintenance reports; plans and schedules work assignments, priorities, inspection procedures, and shop assignments; solves complex installation and maintenance problems of all heating and cooling equipment; supervises from 6 to 14 persons; conducts on-the-job training.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in electrical theory and laboratory, 4 in power generator systems, 3 in basic mathematics, 2 in internal-combustion engines, 2 in generator/motor theory and laboratory, 2 in AC theory, 2 in fundamentals of diesel engines, 2 in fundamentals of refrigeration and air conditioning, and 2 in safety, for a total of 23 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (AC and DC), 3 in power mechanics, and 3 in air conditioning and refrigeration, for a total of 9 semester hours (10/79).

Recommendation, Skill Level 20

In the vocational certificate category the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (AC and DC), 3 in power mechanics, 3 in air conditioning and refrigeration, 3 in applied electricity, 3 in applied mechanics, and 3 in technical mathematics, for a total of 18 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (AC and DC), 3 in power mechanics, 3 in air conditioning and refrigeration, 3 in applied electricity, 3 in applied mechanics, 3 in technical mathematics, 3 in personnel supervision, 3 in human relations, and 3 in introduction to management, for a total of 27 semester hours (10/79).

MOS-52D-001

Power Generation Equipment Repairman

52D20
52D40

Exhibit Dates: 10/73–2/78.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Supervises or performs maintenance on power generation equipment. *Skill Level 20:* Must be able to perform the duties of 52B30 (Power Generation Equipment Operator/Mechanic); repairs power generation equipment; disassembles, repairs, reassembles, tests, adjusts, and inspects major items, assemblies, subassemblies, and components of electrical equipment including motors, generators, portable power generator sets, frequency converters, arc welders, switch gear, electrical load banks, water purification set, ion exchange units, electrical forklifts, battery charging panels, and light sets; repairs gas turbine, gasoline, and diesel engines; troubleshoots and diagnoses mechanical and electrical malfunctions; disassembles, repairs, and reassembles static and rotating exciters, and static and dynamic AC and DC voltage regulators and related equipment; rewinds AC and DC motors and generators; uses standard and special hand and power tools, and test equipment including gas turbine engine analyzer, automatic electrical tester, oscilloscopes, precision voltage and frequency meters, electronic tachometers, multimeters, and industrial analyzers. NOTE: May have progressed to 52D20 from 52B30 (Power Generation Equipment Operator/Mechanic) or 52C20 (Power Pack Specialist). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises repairs, overhauls, disassemblies/assemblies, tests, adjustments, and inspections of power generation equipment; conducts on-the-job training; establishes work priorities, work and shift schedules, shop administrative practices, and inspection procedures; prepares and keeps maintenance forms and records.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in AC/DC motor generator theory and laboratory, 4 in basic electricity/electronics theory and laboratory, 3 in industrial electricity, 2 in basic mathematics, 2 in semiconductor devices, 2 in instrument applications, 2 in fundamentals of small engine repair, 2 in fundamentals of combustion engine repair, 2 in fundamentals of diesel engine repair, 2 in fundamentals of turbine engine repair, and 2 in safety, for a total of 29 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 18 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light) (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 3 in industrial safety, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 30 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light) (6/76).

MOS-52D-002

Power Generation Equipment Repairer

52D10
52D20
52D30

Exhibit Dates: 3/78–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Supervises or performs support and maintenance functions of power generating equipment. *Skill Level 10:* Repairs and maintains power generation equipment and associated items such as arc welders, forklifts, and other materials handling equipment in addition to motor generators; determines condition of equipment, cause of malfunction, and need for repair; uses appropriate test procedures and test equipment, including multimeters and compression gauges, hand and power tools; repairs gasoline and diesel engines and electric motors. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower grade personnel; repairs AC and DC voltage regulators, electrical and electronic load sensing governors, and control circuits; performs technical inspections. *Skill Level 30:* Able to perform the duties required for Skill Level 20; manages and supervises repair operations for power generating and similar equipment; conducts training of lower skill level personnel; inspects operationsl condition of equipment and installations; analyzes problems in power generation and associated equipment through maintenance histories, wiring diagrams and operating characteristics.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in AC/DC motor generator theory and laboratory, 3 in basic electricity/electronics, 2 in basic mathematics, 2 in fundamentals of small engine repair, 2 in fundamentals of internal combustion engine repair, and 2 in fundamentsls of diesel engine repair, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity/electronics and 3 in fundamentals of power mechanics (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in AC/DC motor generator theory and laboratory, 3 in basic electricity/electronics, 2 in basic mathematics, 2 in fundamentals of small engine repair, 2 in fundamentals of internal combustion engine repair, 2 in fundamentals of diesel engine repair, 3 in industrial electricity, 2 in electrical instrument applications, and 2 in safety, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics, 2 in technical mathematics, 6 in power mechanics, and 2 in industrial electricity, for a total of 16 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics, 2 in technical mathematics, 6 in power mechanics, 2 in industrial electricity, 3 in human relations, 3 in personnel supervision, and 3 in introduction to management, for a total of 25 semester hours (10/79).

MOS–52E–001

POWER STATION OPERATOR

52E20

52E40

Exhibit Dates: 10/73–2/78.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Operates or supervises operation of substation or generating system. *Skill Level 20:* Operates and maintains generating station equipment; inspects, tests, modifies, and performs installations and preventive maintenance of substation or generating station electrical equipment; starts, stops, and regulates motor, gas engine, diesel engine, and turbine engine driven generators; makes required voltage, power, frequency, and phase compensations in order to maintain specified electrical requirements; performs engine or motor input/output power inspections, tests, and adjustments as needed for providing proper operation of generator; uses fundamental electronics knowledge, schematic tracing and electronics instruments in performing diagnostic tests on systems, circuits, and components; uses multimeters, oscilloscopes, clamp-on ammeters, insulation testers, generator-motor testers, diode-transistor testers, signal generators, tachometers, impedance bridges, and pressure gauges; troubleshoots and repairs down to actual discrete electronic components in solid-state or saturable reactor voltage regulators; makes adjustments or repairs overall phases of gas engines or diesel engines, including oil changes, ignition system tune-ups, carburetor adjustments, engine disassembly, valve grindings, and starter motor repairs; is qualified to perform preventive maintenance and repairs of other similar electromechanical equipment including arc welders, air conditioners, refrigeration units, dehumidifiers and small engines; as a power station operator, measures, records, and interprets data from electrical, pneumatic, and hydraulic instruments; performs on-site maintenance, including draining oil, cleaning, examining, and replacing minor parts; operates boilers, on steam powered floating plants; may be responsible for the supervision of other operators and mechanics. *Skill Level 40:* Must be able to perform the duties required for Skill Level 20; supervises operation of generating station, substations, or portable power generators; supervises installations, preventive maintenance, safety, inspections, and parts and equipment requisitioning; conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in AC/DC motor generator theory and laboratory, 4 in basic electricity/electronics theory and laboratory, 3 in industrial electricity, 2 in basic mathematics, 2 in semiconductor devices, 2 in instrument applications, 2 in fundamentals of small engine repair, 2 in fundamentals of combustion engine repair, 2 in fundamentals of diesel engine repair, 2 in fundamentals of turbine engine repair, and 2 in safety, for a total of 29 semester hours. In the lower-division baccalureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 18 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light) (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 3 in industrial safety, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 30 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light) (6/76).

MOS–52E–002

PRIME POWER PRODUCTION SPECIALIST

52E20

52E30

52E40

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS–52H–001

NUCLEAR POWER PLANT MECHANIC OR OPERATOR

52H20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 52H was discontinued and its functions were incorporated into MOS 52E, Prime Power Production Specialist.)

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Operates and repairs mechanical systems and auxiliary and standby equipment of an Army nuclear power plant; reads schematic diagrams and mechanical drawings; introduces control instrumentation, power conversion equipment, station service electrical system, associated pumps, and chemical feed system; observes and interprets instrument readings; interprets nuclear, mechanical, and electrical problems involving mathematical formulas; calibrates, adjusts, repairs, and tests operation of mechanical equipment, including turbines, control rod drives, pumps, air compressors, heat exchanges, economizers, chlorinators, and diesel-driven auxiliary generating equipment; uses handtools, precision-measuring devices, and electrically and pneumatically operated power tools. NOTE: An individual assigned MOS 52H may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

MOS–52J–001

NUCLEAR POWER PLANT ELECTRICIAN OR OPERATOR

52J20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 52J was discontinued and its duties were incorporated into MOS 52E, Prime Power Production Specialist.)

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Repairs electrical components of Army nuclear power plant equipment; observes instructions and records indications; adjusts temperature, pressures, flow rates, and process liquid levels; applies provisions of National Electrical Code governing installation, modification, and repair of electrical wiring and equipment; traces wiring and equipment diagrams; troubleshoots electrical systems; interprets nuclear, mechanical, and electrical problems involving mathematical formulas; wires, repairs, and tests operation of switchgear, circuit breakers, motors, transformers, generators, high and low voltage distributors, transmission systems, and protective and self-synchronizing devices; solders connections and splices cables; assists in refueling operations. NOTE: An individual assigned MOS 52J may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

MOS-52K-001

Nuclear Power Plant Instrumentman or Operator

52K20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 52K was discontinued and its functions were incorporated into MOS 52E, Prime Power Production Specialist.)

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Operates controls and equipment and installs and repairs electrical, electronic, and pneumatic instrumentation; establishes startup conditions in power conversion equipment, station service electrical system, control instrumentation, associated pumps, and chemical feed systems; observes and interprets instrument readings; operates diesel-driven auxiliary generating equipment; troubleshoots Army nuclear power plant instrumentation systems, using schematic and wiring diagrams; installs, calibrates, adjusts, repairs, and tests instrumentation and control equipment; installs electrical, electronic, and pneumatic instruments; repairs or replaces circuit wiring, coaxial cables, vacuum tubes, semiconductors, and saturable core devices; uses multimeters, oscilloscopes, transistor test sets, signal generators, and pressure and vacuum comparators; interprets nuclear, mechanical, and electrical problems involving mathematical formulas. NOTE: An individual assigned MOS 52K may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

MOS-52L-001

Nuclear Power Plant Process Control Specialist or Operator

52L20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 52L was discontinued and its functions were incorporated into MOS 52E, Prime Power Production Specialist.)

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Serves as a health physicist; conducts radiological surveys of personnel, equipment, work areas, and reactor elements, and carries out safety and decontamination procedures; establishes startup conditions in power conversion equipment, station service electrical system, control instrumentation, associated pumps, and chemical feed systems; observes and interprets instrument readings; sustains temperature, pressures, flow rates, and process liquid levels; interprets nuclear, mechanical, and electrical problems; operates diesel-driven auxiliary generating equipment; applies techniques for volumetric, gravimetric, colorimetric, and radiochemical analysis of water; determines alpha, beta, gamma, and neutron activities in air, water, and solid samples; converts radiation levels into millicuries; computes radiation levels, exposure time limits, accumulated dosages, and radiation counter efficiencies; employs slide rule, logarithm tables, and chemical and mathematical formulas; performs decontamination procedures; establishes and monitors plant radiological safety program. NOTE: An individual assigned MOS 52L may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder; also may be specialized in health physics, water chemistry, or instrumentation.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering and 3 in health physics, and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 24 semester hours (6/76).

MOS-52M-001

Nuclear Power Plant Chief

52M40

52M50

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 52M was discontinued and its functions were incorporated into MOS 51Z, General Engineering Supervisor, and MOS 52E, Prime Power Production Specialist.)

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Summary: Supervises the operation and maintenance of an Army nuclear power plant. *Skill Level 40:* Able to perform the duties required for 52H20 (Nuclear Power Plant Mechanic or Operator), 52J20 (Nuclear Power Plant Electrician or Operator), 52K20 (Nuclear Power Plant Instrumentman or Operator), or 52L20 (Nuclear Power Plant Process Control Specialist or Operator). *When Army certified as a senior reactor operator,* serves as a nuclear power plant shift supervisor or, in a small nuclear power plant, as the maintenance supervisor; supervises operating and maintenance activities and takes appropriate actions to insure efficient and safe operation of the nuclear power plant; prepares technical and administrative reports on nuclear power plant operation and maintenance; instructs subordinates in plant operation and maintenance; makes independent technical decisions on small plant nuclear power facilities maintenance; supervises plant activities in the absence of plant supervisor or superintendent. NOTE: In some cases, an individual assigned 52M40 may *not* be Army-certified as a senior reactor operator and may instead perform the maintenance and special functions required for 52H20, 52J20, 52K20, or 52L20. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the maintenance supervisor in a large nuclear power plant or as the supervisor of a small or large nuclear power plant; serves as the first sergeant of a company; assists in planning, coordinating, and supervising all operations and activities; advises the company commander on all personnel matters; directs and coordinates company administration; directs and conducts on-the-job training; holds meetings with subordinate supervisor to provide instructions and guidance; inspects facilities to insure safety measures are followed; coordinates support activities, such as supply and food service; periodically serves as a chief instructor in a formal training facility.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, 3 in chemistry, 3 in technical writing, and 3 in human relations, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 39 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering, 6 for field experience in management, 3 in introduction to management, 3 for an internship in education, 3 in industrial arts education (engineering technology), and 3 in health physics, for a total of 24 semester hours; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 39 semester hours (6/76).

MOS-53B-001

OXYGEN-ACETYLENE PRODUCTION SPECIALIST

53B20

53B40

Exhibit Dates: 10/73–2/78.

Career Management Field: 51 (General Engineering), *subfield* 513 (Industrial Gas Production).

Description

Summary: Operates oxygen-acetylene plants to manufacture gaseous nitrogen, oxygen, and acetylene. *Skill Level 20:* Has some basic knowledge of applied science, such as law of gases, liquification and separation of air, theory of cooling, fractional distillation, basic instrumentation, chemistry of acetylene, forms of energy, changes of state, theory of carbon dioxide, and hydrogen production; employs safety measures; combats fires caused by chemicals. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; isolates and corrects equipment malfunctions; coordinates plant operations and maintenance; enforces safety rules; writes routine, special, and technical reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied science and additional credit on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied science, 2 in personnel supervision, and 1 in technical writing, and additional credit on the basis of institutional evaluation, for a minimum total of 6 semester hours (3/75).

MOS-53B-002

INDUSTRIAL GAS PRODUCTION SPECIALIST

53B10

53B20

53B30

53B40

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-53C-001

CARBON DIOXIDE—HYDROGEN PRODUCTION SPECIALIST

53C20

53C40

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 53C was discontinued and its functions were incorporated into MOS 53B, Industrial Gas Production Specialist.)

Career Management Field: 51 (General Engineering), *subfield* 513 (Industrial Gas Production).

Description

Summary: Operates carbon dioxide-hydrogen production plants. *Skill Level 20:* Operates a mobile production plant to manufacture carbon dioxide, dry ice, and hydrogen; prepares site for equipment installation, positions trailers, and connects piping, hoses, and power lines; starts up, operates, and shuts down gas producing, solidification, and related equipment; changes cylinders and packs solid carbon dioxide; employs safety measures in handling hydrogen and carbon dioxide under high pressure and at extremely low temperatures and knows how to combat petroleum fires; performs preventive maintenance on equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 1–4 carbon dioxide or hydrogen generating complexes; coordinates plant operations and maintenance; enforces safety rules and makes inspections; supervises storage and issue of gaseous and solid products; compiles reports on hydrogen and carbon dioxide generation.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in fire safety, 2 in first aid and chemical protection, and 2 in mechanical maintenance, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical protection and 1 in fire safety (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical protection, 1 in fire safety, and 3 in human relations, for a minimum total of 6 semester hours; *if grade E-6 was achieved,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours; and *if grade E-7 was achieved,* 3 additional semester hours for field experience in management, for a total of 12 semester hours (6/76).

MOS-54A-001

CHEMICAL OPERATIONS ASSISTANT

54A10

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 54A was discontinued and its functions were incorporated into MOS 54C, Smoke and Flame Specialist; MOS 54D, Chemical Equipment Repairman; and MOS 54E, Chemical Operations Specialist.)

Career Management Field: 54 (Chemical).

Description

Assists in technical operations in chemical units such as chemical decontamination, smoke and flame, and laboratory units; assists in the preparation, use, and handling of CBR (chemical, biological, and radiological warfare) weapons and munitions, decontaminants, herbicides, and riot control agents; assists in the operation of and performs preventive maintenance on chemical mechanical equipment, using common hand and power tools; learns and complies with, safety precautions for handling chemicals and first aid procedures.

Recommendation

In the vocational certificate category, 2 semester hours in first aid and chemical safety, 2 in mechanical maintenance, and 2 in use and care of tools, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical safety (5/76).

MOS-54B-001

DECONTAMINATION SPECIALIST

54B20

54B40

54B50

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 54B was discontinued and its functions were incorporated into MOS 54E, Chemical Operations Specialist.)

Career Management Field: 54 (Chemical).

Description

Summary: Supervises or performs activities related to neutralizing and decontaminating harmful chemical agents. *Skill Level 20:* Able to perform the duties required for 54A10 (Chemical Operations Assistant); performs duties related to chemical decontamination; performs standard tests to determine type, degree, and extent of contamination; prepares decontaminants; drives vehicles; determines decontamination levels after treatments; cleans and performs preventive maintenance on decontamination equipment; reads and interprets maps. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel and equipment involved in a decontamination team of 8–25 persons; instructs in techniques, policies, and procedures of decontamination; instructs in first aid for toxic warfare casualties; plans decontamination activities; estimates amounts of decontaminants to be used; supervises preparation of the decontamination agents; supervises operation of equipment for applying decontaminating agents; prepares relevant records and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager, serving as first sergeant of a company; assists in planning, coordinating, and supervising all company activities; advises company commander on all personnel matters; coordinates operation of company food service and supply activities; assists in accomplishing unit training.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance, 3 in use and care of tools, 2 in first aid and chemical safety, and 1 in map reading, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical safety and 1 in map reading, and additional credit in applied chemistry on the basis of institutional evaluation, for a minimum total of 3 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in first aid and chemical safety, and 1 in map reading, and additional credit in applied chemistry on the basis of institutional evaluation, for a minimum total of 12 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 12 semester hours (5/76).

MOS-54C-001

Smoke and Flame Specialist

54C20
54C40
54C50

Exhibit Dates: 10/73-2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Operates or supervises the operation of smoke and flame equipment to provide smokescreens or flame support in combat operations. NOTE: Able to perform the duties required for 54A10 (Chemical Operations Assistant). *Skill Level 20:* Serves as smoke generator operator; operates and performs preventive maintenance on smoke and flame equipment; selects location to set up smoke equipment and smoke munitions; makes adjustments to smoke generators to obtain desired screening smoke; evaluates smokescreen effectiveness. Serves as flame fuel equipment operator or as flamethrower driver; identifies targets and assists in loading and firing self-propelled flamethrowers; maintains flamethrowing equipment in operating condition; follows safety precautions and administers first aid for injury from chemical agents; reads maps. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor for a smoke section or platoon or a flamethrower section or platoon; prepares map overlays; supervises the transportation of smoke generating and flame equipment; assigns personnel; directs and conducts training; assists officers in the continuous appraisal of chemical operations and training; keeps records and prepares technical reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serving as operations sergeant, supervises activities pertaining to organization, training, and technical operations of chemical smoke generator battalion; serving as the first sergeant of a company, is a mid-level manager responsible for personnel actions, unit training, supplies, inspections, and tactical operations and directly supervises approximately 8-10 noncommissioned officers; may serve as a chief instructor in a formal training facility. NOTE: May have progressed to 54C50 from 54C40 or 54B50 (Decontamination Specialist).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in first aid and 1 in use and care of tools (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 2 in instructional methods, for a total of 11 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, 3 for public speaking, and 2 in instructional techniques, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 9 semester hours (6/76).

MOS-54C-002

Smoke and Flame Specialist

54C10
54C20

Exhibit Dates: 3/77-Present.

Career Management Field: 54 (Chemical).

Description

Effective 3/77, MOS 54C was discontinued for use in the Active Army and retained for use in the Reserve Forces only. The American Council on Education will not be able to evaluate MOS 54C until after the Skills Qualifications Tests for 54C10 and 54C20 have been developed.

Recommendation

Credit on the basis of institutional evaluation.

MOS-54D-001

Chemical Equipment Repairman

54D20
54D40
54D50

Exhibit Dates: 10/73-2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Repairs or supervises the repair of chemical equipment. NOTE: Able to perform the duties required for 54A10 (Chemical Operations Assistant). *Skill Level 20:* Performs maintenance on chemical equipment, such as gas masks, smoke generators, and flamethrowers, and on decontaminating equipment; inspects, tests, adjusts, and cleans equipment; disconnects and assembles equipment components such as carburetor, fuel pump, or furnace assembly; uses common handtools; performs rough repair of damaged metal parts, such as sawing and soldering; sews canvas pieces to repair gas masks; replaces irreparable components, such as broken gas mask eyepieces. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises from 9 to 40 persons involved in the repair of chemical equipment and may serve as a maintenance inspector; establishes priorities and assigns work; requisitions supplies; establishes work methods and performance standards; directs and conducts on-the-job training; keeps maintenance records and prepares technical reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serving as a first sergeant of a company, is a mid-level manager responsible for operations, personnel, actions, unit training, supplies, and inspection; makes recommendations to officers on all related matters; holds meetings with subordinate noncommissioned officers to provide them instructions and guidance.

Recommmendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance, 2 in first aid and chemical safety, 1 in use and care of tools, and 1 in map reading (basic surveying), for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical safety (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in human relations, 3 in personnel supervision, 2 in instructional methods, and 2 in first aid and chemical safety, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 9 semester hours (6/76).

MOS-54D-002

Chemical Equipment Repairer
(Chemical Equipment Repairman)

54D10
54D20

Exhibit Dates: 3/77-Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield 633* (Machinery Maintenance).

Description

Summary: Repairs or supervises repair of chemical equipment such as compression spray units, internal-combustion engines, generators, and detection instruments; has knowledge of atomic structure, radiation theory and effects, chemical agents and first aid. *Skill Level 10:* Performs maintenance on chemical equipment such as smoke generators, flamethrowers, gas masks, decontamination equipment and dispersers; inspects, tests, adjusts, cleans, and lubricates equipment; maintains or replaces equipment components such as carburetor, fuel pump, or furnace assembly; uses common or specialized hand tools and test equipment; reads and uses technical literature in diagnosing and repairing equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; may supervise up to 15 Skill Level 10 personnel; performs technical inspection of chemical equipment; maintains records of maintenance performed.

Recommendation, Skill Level 10

In the vocational certficate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance, 2 in first aid and chemical safety, and 1 in care and use of tools, for a total of 6 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance, 2 in first aid and chemical safety, and 1 in care and use of tools, for a minimum total of 6 semester hours; *if the duty assignment was chemical equipment repair foreman,* 2 semester hours in personnel supervision, for a total of 8 semester hours (5/78).

MOS-54E-001

Chemical Staff Specialist

54E20
54E40
54E50

Exhibit Dates: 10/73-2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Supervises or assists in the establishment, administration, and application of chemical, biological, and radiological health programs. *Skill Level 20:* Supervises communities during emergencies and disasters; prepares reports and maintains records; understands chemical toxicology, radiation dangers, and the effect of weather on chemical and radiation hazards; uses testing and detecting equipment; identifies physiological and behavioral effects of chemical agents and administers first aid to affected personnel. NOTE: May have progressed to 54E20 from 54A10 (Chemical Operations Assistant). *Skill Level 40:* Able to perform the duties required for Skill Level 20; uses advanced techniques for detecting, identifying, and analyzing chemical agents; as a first-line supervisor, trains personnel and plans and coordinates the acquisition, storage, and use of chemical and radiological agents and materials. NOTE: May have progressed to 54E40 from 54E20, 54B40 (Decontamination Specialist), 54C40 (Smoke and Flame Specialist), 54D40 (Chemical Equipment Repairman), or 92D40 (Chemical Laboratory Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; as an experienced senior supervisor, trains several hundred personnel, appraises the effectiveness of technical operations involving chemical agents and materials, and analyzes chemical and radiological data. NOTE: May have progressed to 54E50 from 54E40 or 54D50 (Chemical Equipment Repairman).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in administration or management, 3 in biology, 3 in cartography or meteorology, 3 in educational techniques, 3 in general chemistry, 3 in health science, 3 in physics, and 6 in laboratory techniques, for a total of 27 semester hours (2/75).

Recommendation, Skill Levels 40 and 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in biology, 3 in cartography or meteorology, 3 in educational techniques, 3 in general chemistry, 3 in physics, 6 in administration or management, 6 in health sciences, and 9 in laboratory techniques, for a total of 36 semester hours (2/75).

MOS-54E-002

CHEMICAL OPERATIONS SPECIALIST

54E10
54E20
54E30
54E40
54E50

Exhibit Dates: 3/77–Present.

Career Management Field: 54 (Chemical).

Description

Summary: Operates or supervises the use of chemical equipment such as smoke generators, flamethrowers, and decontamination equipment; assists in establishing, administering, and applying health programs in the chemical, biological, and radiological areas. *Skill Level 10:* Prepares liquid and dry decontaminants; operates power driven decontaminating apparatus and chemical and radiological detection equipment; assists in establishment and operation of personnel decontamination stations; performs maintenance on associated equipment; understands chemical toxicology, radiation dangers, decay rates, and meteorological effects on chemical and radiological hazards; has knowledge of biological vectors, nomograms, and map reading; identifies physiological and behavioral effects of agents and administers first aid. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as supervisor of groups of 8–15 persons; prepares intelligence reports, assists in analysis of reports, records, maps, and overlays relating to chemical, nuclear, and biological activities; maintains files and records; prepares meteorological fallout predictions and computes chemical agent requirements for special operations; assists in computations of radiation factors. *Skill Level 30:* Able to perform the duties required for Skill Level 20; must be able to supervise personnel performing the duties of 54E20 and 54C20 (Smoke and Flame Specialist); supervises decontamination of equipment, supplies, and terrain zones; supervises operation of chemical equipment; supervises the organizing, training, and functioning of specialized units in nuclear or chemical operations; prepares reports, supply and maintenance records, and training records; assists in planning for employment of chemical personnel units; collects and analyzes information and data and coordinates special support functions with larger military groups. NOTE: May have progressed to 54E30 from 54E20 or 54C20 (Smoke and Flame Specialist). *Skill Level 40:* Able to perform the duties required for Skill Level 30; must be able to supervise personnel performing the duties of 54E30 and 92D30 (Chemical Laboratory Specialist); uses advanced techniques for detecting, identifying, and analyzing chemical agents; plans, coordinates, and supervises organization, training, and employment of chemical personnel units; instructs in methods, techniques, and policies; assists commanders and staff in preparing plans and written documents for tactical operations. NOTE: May have progressed to 54E40 from 54E30 or 92D30 (Chemical Laboratory Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in a unit of 100–150 persons or to high level staffs; appraises the effectiveness of technical operations involving chemical agents; analyzes chemical, biological, and radiological reports and data.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in general science, 2 in laboratory techniques, 3 in health sciences, 2 in cartography, and 3 in applied mathematics, for a total of 13 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in general science, 2 in laboratory techniques, 3 in health sciences, 2 in cartography, 3 in applied mathematics, 2 in records administration, 3 in human relations, and 3 in personnel supervision, for a total of 21 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in general science, 2 in laboratory techniques, 3 in health sciences, 2 in cartography, 3 in applied mathematics, 3 in records administration, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 25 semester hours (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, credit as follows: *if the person progressed to 54E40 from 54E30,* use the 25 semester hours for 54E30, plus 3 semester hours in educational techniques, for a total of 28 semester hours; *if the person progressed to 54E40 from 92D30,* use the recommendation for Skill Level 30 in the exhibit MOS-92D-002 (18 or 27 semester hours), plus 3 semester hours in educational techniques. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/78).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, use the appropriate recommendation for Skill Level 40 plus 3 additional semester hours for field experience in management. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in personnel management, and 3 in management problems, for a total of 9 semester hours (5/78).

MOS-55B-001

AMMUNITION STORAGE AND OPERATIONS SPECIALIST

55B20
55B30
55B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 55 (Ammunition).

Description

Summary: Receives, inspects, classifies, stores, and issues ammunition; keeps records of warehouse transactions. *Skill Level 20:* Under supervision, works as a storekeeper, controlling stock and keeping inventory data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; functions as a senior storekeeper with a minimum of supervision; prepares and maintains files and special records systems; operates office equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor of storage facility personnel; organizes and manages warehouse operations; has in-depth knowledge of storage systems.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office skills (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in office skills (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in office skills, records management, or personnel supervision. In the upper-division baccalaureate category, 3 semester hours in business administration (2/75).

MOS-55B-002

Ammunition Specialist (Ammunition
Storage and Operations
Specialist)

55B10
55B20
55B30
55B40

Exhibit Dates: 10/74–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Receives, inspects, classifies stores, and issues ammunition; keeps records of warehouse transactions. *Skill Level 10:* Serves as an ammunition storage assistant or records clerk; assists in the receipt, storage, issue, and maintenance of all types of conventional and chemical ammunition, ammunition components, and explosives; loads, unloads, stacks, and stores ammunition supplies and explosives, including guided missiles, using materials handling equipment; prepares ammunition for shipment by bracing and staying loads; inventories ammunition in storage; assists in upkeep of operations area and facilities; applies safety precautions to ammunition storage, handling, and maintenance; assists in the routine destruction of unserviceable and irreparable conventional and chemical ammunition and explosives. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; performs emergency destruction of ammunition; prepares periodic statistical reports on issue, receipt and storage functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises Skill Level 10 and Skill Level 20 personnel; plans and organizes ammunition storage facilities and maintenance operations; estimates requirements for personnel, tools, equipment, and supplies; supervises the establishment and maintenance of ammunition stock control records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises ammunition supply operations, including maintenance of non-nuclear ammunition; performs as technical advisor; prepares activity reports; assigns duties to subordinate personnel; supervises the setting up and camouflaging of ammunition supply and maintenance facilities.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in explosives (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in human relations (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management for a total of 9 semester hours (6/76).

MOS-55D-001

Explosive Ordnance Disposal
Specialist

55D10
55D20
55D30
55D40
55D50

Exhibit Dates: 3/76–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs disposal activities related to explosive devices. *Skill Level 10:* Assists in the location, identification, rendering safe, removal, and destruction of explosive ordnance other than nuclear fission or fusion materials; uses detection instruments to determine hazards and to define or delineate exclusion areas; decontaminates explosive devices as required; assists in isolating explosive and/or contaminated areas; removes obstructions surrounding explosive devices; makes photographs and radiographs; operates and performs maintenance on explosive disposal equipment, tools, and vehicular equipment, including radiac equipment, radios, and chemical detection equipment; cooperates with and supports law enforcement agencies and protection services. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs render-safe and disposal procedures for nuclear devices; destroys or neutralizes unserviceable and irreparable explosive conventional devices; reads and interprets radiographs, diagrams, drawings, and technical literature; identifies all explosives by appearance and markings; performs radiation monitoring and evaluates existing and potential hazards associated with nuclear devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises 4 or more subordinate personnel; prepares technical intelligence and incident reports; develops and/or modifies render-safe procedures for conventional explosive devices; conducts classes; assists in unit administration, supply, security, and record management; assumes command of an explosive disposal team. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises 5 or more subordinate personnel; performs administrative and supervisory activities for the disposal unit including personnel, supply, maintenance, security, training, and management; consolidates, edits, and reviews disposal reports; maintains liaison with supporting security units; coordinates operations and movements; prepares order and operating procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises entire disposal operation unit under direction of unit commander; coordinates operations and movements; supervises activities of several disposal teams over a wide geographical area; oversees and supervises coordination and liaison with supporting units; assumes command of unit in absence of commander.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in explosives or mechanical technology and 1 in photography (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in explosives or mechanical technology, 2 semester hours in blueprint interpretation, and 1 in photography, for a minimum total of 9 semester hours; and, *if the duty assignment was nuclear explosive ordnance specialist,* 3 additional semester hours in nuclear technology, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 2 in maintenance management, 3 in human relations, and 3 in public speaking, for a total of 10 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in radiation physics, 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing, 3 in maintenance management, 3 in human relations, 3 in public speaking, and 6 for innovative explosive devices, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in radiation physics, 3 in introduction to management, and 6 for field experience in management, for a total of 12 semester hours (6/76).

MOS-55G-001

Nuclear Weapons Maintenance
Specialist

55G10
55G20
55G30
55G40

Exhibit Dates: 10/73–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs maintenance and surveillance of nuclear weapons, nuclear weapons trainer, and associated electrical, mechanical, and nuclear components. *Skill Level 10:* Assembles, tests, and adjusts electrical and mechanical components to insure proper operation; uses common and specialized handtools, power tools, and test equipment; performs surveillance and monitoring operations for radioactive matter; applies appropriate safety procedures; packages, unpacks, paints, and stencils weapons, components, and containers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; test-operates weapons components; receives, stores, and inspects (preissue and preload) nuclear components; uses radioactive survey equipment; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs Skill Level 10 and Skill Level 20 personnel in MOS 55G and 35F (Nuclear Weapons Electronics Specialist); calculates workloads, coordinates work activities, and makes assignments; prepares training charts, documents, and materials; strictly adheres to regulations and appropriate inspection techniques and procedures in the maintenance, modifications, repair, transportation, and maintenance calibration of nuclear weapons and associated trainers, testers, and handling equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, coordinates, and inspects maintenance facilities, activities, operations, and productivity; helps plan all maintenance activities, serves as an electronics technical advisor; reviews safety and fire regulations, standing operating procedures, and the utilization of equipment, and recommends changes; has office management responsibilities, including records and forms management, correspondence, security standards, and personnel processing.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in mechanical maintenance, 2 in electrical maintenance, 2 in use and care of handtools, powertools, and test equipment, 1 in safety practices and procedures, and 1 in shop operations, for a total of 7 semester hours. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in toxic material handling and 1 in nuclear technology. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in safety practices and procedures, 2 in electrical maintenance, 2 in use and care of handtools, powertools, and test equipment, 2 in shop operations, and 1 in mechanical maintenance, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in maintenance management, 3 in human relations, 2 in toxic material handling, and 1 in nuclear technology, and additional credit in nuclear technology on the basis of institutional evaluation, for a minimum total of 9 semester hours. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in maintenance management, 3 in human relations, 3 in office management, 3 in personnel supervision, 2 in toxic material handling, and 1 in nuclear technology, and additional credit in nuclear technology on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

MOS-55X-001

AMMUNITION INSPECTOR

55X30
55X40

Exhibit Dates: 3/76–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Conducts inspections and tests to determine the serviceability of conventional and non-nuclear special ammunition, components, and related package materials. *Skill Level 30:* Inspects ammunition to determine deterioration; evaluates safety procedures; inspects incoming and outgoing ammunition shipments; inspects magazines, storage sites, and surrounding areas for storage safety; inspects ammunition destruction sites for safety condition; selects ammunition samples for tests, evaluations, or investigations; instructs in surveillance and safety techniques; performs function tests of selected ammunition items; maintains files. NOTE: May have progressed to 55X30 from 55B30 (Ammunition Specialist), 55D30 (Explosive Ordnance Disposal Specialist), or 55G30 (Nuclear Weapons Maintenance Specialist). *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as the principal advisor on ammunition surveillance and safety matters and provides technical guidance to subordinate personnel; reviews safety requirements; coordinates surveillance activities with civilian authorities and inspectors.

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in explosives, 3 in supply procedures, 3 in quality control, and 3 in safety inspection procedures, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 1 in office procedures (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 3 in office procedures, for a total of 12 semester hours (6/76).

MOS-55Z-001

AMMUNITION SUPERVISOR (AMMUNITION FOREMAN)

55Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 55 (Ammunition).

Description

Serves as the principal supervisor and advisor for the receipt, issue, classification, storage, surveillance, maintenance, disposition, and decontamination of conventional ammunition and nuclear and non-nuclear special ammunition; advises on packaging and rigging loads for movement by all types of transportation; assists in the selection and layout of ammunition storage facilities; recommends employment of and requirements for techical assistance teams, labor, equipment, and supplies; assists in the preparation of plans, policies, and procedures; prepares and reviews evaluations and reports on operations and training activities; analyzes ammunition stock with automatic data processing data; advises commander on all enlisted personnel matters. NOTE: May have progressed to 55Z50 from 55B40 (Ammunition Specialist), 55G40 (Nuclear Weapons Maintenance Specialist), or 55X40 (Ammunition Inspector).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in business administration, 3 in human relations, and 6 for field experience in management, for a total of 18 semester hours (6/76).

MOS-57D-001

SAWYER

57D10
57D20
57D40
57D50

Exhibit Dates: 10/74–2/78. (Effective 3/78, MOS 57D was discontinued and its functions were incorporated into MOS 51B, Carpentry and Masonry Specialist, and MOS 51H, Construction Engineering Supervisor.)

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Performs logging and sawmill operations. *Skill Level 10:* Serves as a lumberjack helper; assists in felling trees; trims branches; saws trunks into logs; lashes logs to skids or trucks and drags or hauls logs to sawmill; saws logs and stacks lumber at mill. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as lumberjack, millwright, timber cruiser, or lumber grader; distinguishes different species of trees and chooses proper saws; fells trees; grades lumber; services logging and sawmill equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 15 or more persons involved in logging and sawmill operations; understands the effects of logging operations on the terrain and selects cutting areas, taking into consideration the types of lumber required, efficiency, and protection of the terrain from overcutting; calculates lumber content of logs and estimates board footage of standing trees based on diameter and height; supervises drying and storing of lumber; explains and demonstrates logging and sawmill techniques. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager serving as first sergeant of a company; assists in planning, coordinating, and supervising company activities; advises commander on all personnel matters and handles personnel activities; holds meetings with subordinate supervisors to provide them instructions and guidance; directs training.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in use of tools and credit in a lumber specialist, saw filer, sawyer, or millwright program on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, credit in forest resources technology or forest management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in use of tools and 2 in shop mathematics, and credit in a lumber specialist, saw filer, sawyer, or millwright program on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 in forest management, for a minimum total of 9 semester hours, and additional credit in forest resources technology on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management, for a total of 9 semester hours (6/76).

MOS-57E-001

Laundry and Bath Specialist

57E10
57E20
57E40
57E50

Exhibit Dates: 10/74-2/77

Career Management Field: 57 (Field Services), *subfield* 571 (Services).

Description

Summary: Performs or supervises laundry, bath, and impregnation functions and related activities at fixed and mobile locations. *Skill Level 10:* Assists in the operation of laundry and bath equipment; operates fumigation and delousing equipment; assists in the maintenance of related equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates mobile laundry and bath equipment; troubleshoots and maintains related equipment; uses washing, impregnation, and contamination solutions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises field units providing laundry, bath, and fumigation services; selects suitable operational sites; supervises setting up field units and equipment; coordinates the scheduling of personnel; supervises preventive maintenance of laundry, impregnation, fumigation, and bath equipment; supervises the training of personnel in techniques and operations; prepares reports related to laundry and bath operations. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as a mid-level manager, advises superiors on personnel matters, coordinates the operation of food service and supply operations; receives and maintains personnel reports; assists in conducting unit training.

Recommendation, Skill Levels 10 and 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, and 3 for field experience in management (11/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management, 2 in personnel management, 3 in records administration, 1 in first aid, and 2 in safety techniques, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management (11/75).

MOS-57E-002

Laundry and Bath Specialist

57E10
57E20
57E30
57E40
57E50

Exhibit Dates: 3/77-Present.

Career Management Field: 76 (Supply and Service), *subfield* 762 (Service).

Description

Summary: Performs or supervises laundry, bath, decontamination and reimpregnation functions. *Skill Level 10:* Operates laundry and bath equipment; operates fumigation and delousing equipment; installs, inspects and operates generators, compressors, water pumps and water heaters; cleans, lubricates and performs preventive maintenance on laundry, bath and related equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; determines laundry sites, suitable water supplies, drainage, parking sites, and concealment; prepares facility layout; supervises marking, classifying, and washing operations; directs use of washing formulas, soaps, detergents, and other materials; establishes work priorities; prepares work schedules. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations of medium-size unit; supervises and coordinates with medical authorities; determines personnel requirements and plans and supervises training program. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large-size units; establishes, evaluates and monitors unit training and preventive maintenance programs; prepares appropriate reports, operation plans, and orders; monitors laundry and renovation operations. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as prinicpal noncommissioned officer in field service company; advises superiors on personnel matters; assists in conducting unit training.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 5 semester hours in institutional laundry (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in institutional laundry. In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in institutional laundry. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 2 in record keeping, for a total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (5/78).

Recommendation, Skill Level 50

In the vocational certificate category, 5 semester hours in institutional laundry. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 2 in record keeping, for a total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management (5/78).

MOS-57F-001

Memorial Activities Specialist

57F10
57F20
57F40
57F50

Exhibit Dates: 10/74-2/76.

Career Management Field: 57 (Field Services), *subfield* 572 (Memorial Activities).

Description

Summary: Recovers, identifies, processes, and inters human remains; performs duties at disaster sites as well as within the community; provides technical data to validate the personal identification process; designs cemetery facilities and directs funeral activities; prepares topographic sketches and map overlays for temporary cemetery planning and for site searches and recovery operations. *Skill Level 10:* Under supervision, performs as a mortuary assistant. *Skill Level 20:* Functions as a mortuary technician alone or as a senior team member. *Skill Level 40:* Functions as a first-line supervisor of a mortuary operation; prepares reports and maintains records. *Skill Level 50:* As a mid-level manager, plans, organizes, and directs mortuary service operations and is responsible for administrative services for subordinate staff.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in mortuary sciences and map reading on the basis of institutional evaluation (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mortuary sciences. In the lower-division baccalaureate/associate degree category, 3 semester hours in mortuary sciences and 3 in physical anthropology (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in mortuary sciences. In the lower-division baccalaureate/associate degree category, 6 semester hours in mortuary sciences and 3 in physical anthropology, and additional credit in mortuary sciences, speech, map reading, and report writing on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences and 3 in introduction to management, for a total of 6 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, 12 semester hours in mortuary sciences. In the lower-division baccalaureate/associate degree category, 9 semester hours in mortuary sciences, 3 in physical anthropology, and 3 in office administration, and additional credit in mortuary sciences, speech, map reading, and report writing, on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences, 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours (11/75).

MOS-57F-002

MEMORIAL ACTIVITIES SPECIALIST

57F10
57F20
57F40
57F50

Exhibit Dates: 3/76-2/77.

Career Management Field: 57 (Field Services), *subfield* 572 (Memorial Activities).

Description

Summary: Recovers, identifies, processes, and inters human remains; performs duties at disaster sites as well as within the community; provides technical data to validate the personal identification process; designs cemetery facilities and directs funeral activities. *Skill Level 10:* Under supervision, serves as a mortuary assistant, assisting in the recovery, transportation, identification, and interment of remains. *Skill Level 20:* Able to perform the duties required for Skill Level 10; functions as a mortuary technician alone or as a team member; reads or indicates the location of graves on maps, sketches, or overlays; takes fingerprints or prepares teeth chart; writes descriptions of physical and anatomical characteristics; operates x-ray apparatus and camera. *Skill Level 40:* Able to perform the duties required for Skill Level 20; functions as a first-line supervisor of a mortuary operation; prepares topographical sketches and map overlays; prepares reports and records on processed remains, grave location, registers master locator files, and memorial activities work. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves a mid-level manger, directing and supervising mortuary activities operations; coordinates operations with combat units.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and credit in mortuary sciences on the basis of institutional evaluation (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 6 semester hours in mortuary sciences, 3 in physical anthropology, 2 in anatomy and physiology, and 1 in map reading, for a total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 9 semester hours in mortuary sciences, 3 in physical anthropology, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in technical report writing, 2 in anatomy and physiology, and 1 in map reading, for a total of 26 semester hours. In the upper-division baccaaureate category, 3 semester hours in mortuary sciences and 3 in introduction to management (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, 12 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 12 semester hours in mortuary sciences, 3 in physical anthropology, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in technical report writing, 2 in anatomy and physiology, and 1 in map reading, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in personnel management, 3 in introduction to management, 3 in mortuary sciences, and 3 in records administration, for a total of 18 semester hours (5/76).

MOS-57F-003

GRAVES REGISTRATION SPECIALIST

57F10
57F20
57F30
57F40
57F50

Exhibit Dates: 3/77-Present.

Career Management Field: 76 (Supply and Service), *subfield* 762 (Service).

Description

Summary: Recovers, identifies, processes, and inters human remains; performs duties at disaster sites as well as within the community; provides technical data to validate the personal identification process; designs cemetery facilities and directs funeral activities. *Skill Level 10:* Serves as a mortuary assistant in recovery, transportation, identification, and interment of remains; reads or indicates the location of graves on maps, sketches, or overlays; determines recovery locations; records identification characteristics including fingerprints, skeletal and dental charts; operates cameras and assists x-ray operations; assists in burials, excavating of graves and cemetery maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises search and recovery operations for remains; instructs in special handling, marking, and shipping of contagious disease cases and contaminated remains; prepares location sketches and overlays; prepares work schedules and assigns personnel to work positions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-size graves registration activities; serves as graves registration noncommissioned officer on staff position; assists in post-mortem examinations; assists in special criminal investigations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large-size graves registration activities; advises on health requirements for subordinates; coordinates and advises on military burials; assists in review of mortuary services contracts. *Skill Level 50:* Supervises memorial affairs and graves registration activities; provides technical and administrative advice and assistance on graves registration matters including acquisition of land for temporary cemeteries, and facility, manpower, and equipment requirements; establishes and maintains official records; serves on special boards and councils relative to technical activities; prepares reports on memorial affairs and graves registration activities.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate category, 4 semester hours in mortuary sciences and 1 in map reading (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 6 semester hours in mortuary sciences, 1 in map reading, 2 in physical anthropology, and 2 in anatomy and physiology, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 9 semester hours in mortuary sciences, 1 in map reading, 2 in physical anthropology, 3 in human relations, 2 in personnel supervision, and 2 in anatomy and physiology, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences and 3 for field experience in management (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, 12 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 12 semester hours in mortuary sciences, 2 in physical anthropology, 3 in human relations, 3 in personnel supervision, 2 in anatomy and physiology, and 1 in map reading, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences, 3 in introduction to management, 3 for field experience in management and 3 in personnel management, for a total of 12 semester hours (5/78).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the lower-division baccalaureate/associate degree category, 12 semester hours in mortuary sciences, 2 in physical anthropology, 3 in human relations, 3 in personnel supervision, 2 in anatomy and physiology, 1 in map reading, and 2 in technical report writing, for a total of 25 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences, 3 in introduction to management, 6 for field experience in management, 3 in personnel management, and 3 in records administration, for a total of 18 semester hours (5/78).

MOS-57H-001

CARGO HANDLER

57H20
57H40
57H50

Exhibit Dates: 10/73-2/74.

Career Management Field: 65 (Transportation), *subfield* 651 (Terminal Service).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land,

and air transports by manual and mechanical methods. *Skill Level 20:* Performs the duties of rigger, longshoreman, member of a hatch gang, or assistant hatch foreman. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises one or more hatch gangs, of longshoremen in loading and unloading cargo, employing stowage plans, loading plans, manifests, documentation forms, reports, and other cargo handling forms. *Skill Level 50:* Able to perform the duties required for Skill Level 40; equivalent to an assistant to a port captain or a marine operations specialist; plans, coordinates, and supervises all activities related to the stowage, loading, and discharging of dry cargo.

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in cargo handling and rigging (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours for a practicum in personnel management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 8 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management, 3 in office management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 11 semester hours. In the upper-division baccalaureatre category, 3 semester hours in personnel management and 3 in office management. In the graduate degree category, 3 semester hours in organization and management (2/75).

MOS-57H-002

Terminal Operations Specialist

57H10

57H20

57H40

57H50

Exhibit Dates: 3/74–2/76.

Career Management Field: 65 (Transportation), *subfield* 651 (Terminal Service).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 10:* Loads and unloads supplies and equipment from ships, docks, beaches, boxcars, aircraft, and warehouses; assists cargo checker; employs safety procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs the duties of rigger, longshoreman, member of a hatch gang, or assistant hatch foreman. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises one or more hatch gangs of longshoremen in loading and unloading cargo, employing stowage plans, loading plans, manifests, documentation forms, reports, and other cargo handling forms. *Skill Level 50:* Able to perform the duties required for Skill Level 40; equivalent to an assistant to a port captain or a marine operations specialist; plans, coordinates and supervises all activities related to the stowage, loading, and discharging of dry cargo.

Recommendation, Skill Level 10

In the vocational category, 2 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours for a practicum in personnel management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 8 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management, 3 in office management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in office management. In the graduate degree category, 3 semester hours in organization and management (5/76).

MOS-57H-003

Terminal Operations Coordinator

57H10

57H20

57H30

57H40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 10:* Serves as cargo handler and checker; loads, unloads, checks, and tallies cargo; uses slings, nets, hooks, pallets, spreaders, lifting bars, winches, hoists, and other cargo-handling equipment; employs safety procedures; signals winchman, hoistman, or cargo equipment operator where to move cargo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as hatch foreman or senior cargo checker and enforces safety practices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a medium-sized terminal operation work force by planning and organizing work schedules, assigning duties, and designating work groups (hatch gangs) as required for each operation; advises on the handling of all types of cargo and demonstrates techniques and use of equipment; coordinates heavy lift equipment and special terminal operations gear; prepares technical, personnel, and adminstrative reports. *Skill Level 40:* Performs the duties required for Skill Level 30 in the supervision of a large terminal work force normally consisting of 56 or more subordinate personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 2 in report writing, 2 in cargo planning, 2 in cargo processing and documentation, and 1 in transportation of dangerous materials, for a total of 13 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 in records adminstration, 3 in report writing, 3 for field experience in management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 20 semester hours (5/76).

MOS-61B-001

Watercraft Operator

61B20

61B30

61B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 65 (Transportation), *subfield* 653 (Marine).

Description

Summary: Performs the deck duties of an ordinary seaman, able seaman, and deck hand; operates towboats. *Skill Level 20:* Rigs tows; operates and performs preventive maintenance on deck machinery; performs tasks requiring marlinespike seamanship; is lead deck hand on towing vessels. *Skill Level 30:* Able to perform the duties required for Skill Level 20; works as a look-out or helmsman; plots courses; knows the rules of the road. Skills are comparable to those of able seaman (tugboat) and second-class towboat operator. *Skill Level 40:* Able to perform the duties required for Skill Level 30; can be in complete charge of towing vessels up to 300 gross registered tons; steers vessels; manages the crew; provides berthing and unberthing assistance to large vessels; plans vessel maintenance; ensures the safety of vessels and barges.

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in seamanship (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in seamanship and 3 in basic navigation (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in seamanship, 3 in basic navigation, and 3 in advanced navigation, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation and 3 in basic management (2/75).

MOS–61B–002

WATERCRAFT OPERATOR

61B10

61B20

61B30

61B40

Exhibit Dates: 10/74–Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Summary: Operates and performs deck duties on Army watercraft and, in some instances, amphibians. *Skill Level 10:* Performs general seaman duties; under close supervision, assists in docking, undocking, and anchoring watercraft; assists in loading and unloading cargo; stands lookout watch; assists in inspecting, servicing, and operating fire equipment, lifeboats, and rafts; performs preventive maintenance on and inspections of Army watercraft; maneuvers Army watercraft; uses simple sounding devices, aids to navigation, steering compass courses, and running lights; communicates with stations ashore and afloat, using accepted communications equipment and techniques; applies basic water safety and rescue procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates and dispatches Army watercraft and, under close supervision, allocates and operates Army watercraft for a specific mission in accordance with navigational and communications rules and principles; keeps records of watercraft status and movements. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the operation of watercraft and small boat crew; knows capabilities and limitations of Army watercraft and assigns and dispatches them accordingly; provides berthing and unberthing services to large or oceangoing vessels; computes fuel requirements and plans maintenance; knows procedures for abandoning ship, including sea rescue and lifeboat operations; supervises embarking and debarking of troops; instructs subordinate personnel in watercraft operational practices, procedures, and techniques. NOTE: Some Skill Level 30 personnel are trained as operators of large amphibian vehicles and can supervise their operation. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the operations of a large boat crew or assists in controlling Army watercraft operations; coordinates work activities; performs the supervisory and managerial duties described for Skill Level 30; reviews, consolidates, and prepares technical, personnel, and administrative reports; supervises up to 20 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in seamanship, 1 in piloting, 1 in communications, and 1 in safety, for a total of 7 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, and 1 in safety, for a total of 18 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, 3 in basic navigation, 3 in advanced navigation, and 1 in safety, and additional credit in amphibian operation on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation and 3 in human relations (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, 3 in basic navigation, 3 in advanced navigation, and 1 in safety, and additional credit in amphibian operation on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation, 3 in human relations, 3 in marine management, 3 for field experience in management, and 3 in personnel supervision, for a total of 15 semester hours (6/76).

MOS–61C–001

MARINE ENGINEER

61C20

61C30

61C40

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 653 (Marine).

Description

Summary: Supervises or performs maintenance and repair of GM Series 71 and similar-size marine diesels, small gas engines, and auxiliary equipment on harbor towing and deep sea towing vessels. NOTE: Able to perform the duties required for 61B10 (watercraft operator). *Skill Level 20:* Performs routine maintenance such as changing strainers and filters and installing bearings and bushings as required; monitors engine room equipment to assure proper operation; skills are comparable to those of a licensed oiler on a towing vessel, an unlicensed engineer on towing vessels of 200 gross registered tons and under, an assistant mechanic in a marine diesel engine shop, or an outside machinist in a shipyard. *Skill Level 30:* Able to perform the duties required for Skill Level 20; tears down engines and auxiliary equipment and replaces or repairs parts as necessary; skills are comparable to those of a head mechanic in a marine diesel repair shop and are related to those of an auto mechanic. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises engine room operations on a towing vessel; advises on complex repair problems; instructs repairmen in proper maintenance procedures and safety techniques; applies production and quality control procedures to maintenance operations; skills are comparable to those of a foreman in a marine diesel repair shop or an assistant port engineer for a towing company.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in internal-combustion engine principles (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in internal-combustion engine operation, 3 in internal-combustion engine principles, 3 in internal-combustion engine repair, and 3 in basic refrigeration, for a total of 12 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in internal-combustion engine operation, 3 in internal-combustion engine principles, 3 in internal-combustion engine repair, and 3 in basic refrigeration, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic management (2/75).

MOS–61C–002

WATERCRAFT ENGINEER

61C10

61C20

61C30

61C40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Summary: Supervises or performs maintenance on Army watercraft and on propulsion systems and auxiliary equipment of marine vessels, and, in some instances, on amphibians. *Skill Level 10:* Under close supervision, performs maintenance on Army watercraft; applies safety precautions pertinent to starting, stopping, and operating main diesel engines, electrical machinery, and other auxiliary components installed on board Army watercraft; reads and records pressures and temperatures to insure safe and efficient operation of machinery; uses hand and power tools; assists in performing preventive maintenance inspections and correcting maintenance shortcomings and deficiencies on watercraft. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; computes fuel consumption, tank capacities, and pumping rates for loading and discharging; maintains a working knowledge of damage control, fire prevention, and federal, state, and local environmental pollution control regulations; adjusts or troubleshoots malfunctioning diesel engines, electrical machinery, and auxiliary equipment; makes emergency repairs or takes emergency damage control measures at sea; performs soldering and pipefitting; uses precision tools; interprets technical publications; replaces engine and auxiliary equipment subassemblies; performs preventive maintenance inspections on watercraft; in some instances, may also perform these duties on amphibians. *Skill Level 30:* Able to perform the duties required for Skill Level 20; evaluates job performance of subordinate enginemen; maintains a reference library of technical manuals and service bulletins; interprets technical blueprints; troubleshoots, repairs, purges, recharges, and tests watercraft refrigeration systems; uses special test equipment and instruments in repairing diesel engines and accessory items; assists supervisor in engineering maintenance functions; plans and organizes work schedules and assigns duties to subordinates; instructs subordinates in work production and quality control procedures; assures adherence to safety procedures; is capable of supervising a medium-sized watercraft maintenance facility; establishes physical layout of work site and ensures maintenance of an efficient, clean, and safe work environment; requisitions, issues, stores, and maintains records of supplies and equipment; coordinates work activities with other maintenance elements; recommends changes to technical publications as required; in some instances, may also perform these duties on amphibians. *Skill Level 40:* Able to perform the duties required for

Skill Level 30; supervises a large marine maintenance facility; performs managerial duties as indicated in previous skill levels; estimates and prepares preliminary budget forecasts of supply and maintenance activities; allocates funds and resources for the efficient operation of supply and maintenance activities; establishes operating procedures on the basis of directives and information received from superiors.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in internal-combustion engine principles, 1 in internal-combustion engine operation, and 1 in shipboard operations, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 4 in internal-combustion engine operation, and 5 in shipboard operations, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 16 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 5 in shipboard operations, 4 in internal-combustion engine operation, 3 in basic refrigeration, and 3 in use and care of tools and test equipment, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in watercraft maintenance, 3 in marine refrigeration, and 3 in human relations, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 9 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 5 in shipboard operations, 4 in internal-combustion engine operation, 3 in basic refrigeration, and 3 in use and care of tools and test equipment, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in watercraft maintenance, 3 in marine refrigeration, 3 in human relations, 3 in introduction to management, 3 in personnel supervision, and 3 for field experience in management, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/76).

MOS-61F-001

MARINE HULL REPAIRER
(MARINE HULL REPAIRMAN)

61F10
61F20
61F30
61F40

Exhibit Dates: 3/76-Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Summary: Repairs hulls and accessories of Army watercraft and amphibians. *Skill Level 10:* Assists in the repair of all types of marine hulls and accessories; assists in laying out, measuring, cutting, shaping, and fabricating plastic and metal structures and parts; joins, fastens, and caulks new or repaired portions of the ship's hull by pinning, bolting, cementing, riveting, or welding; cleans, finishes, and preserves metal surfaces; employs working drawings to produce required shape dimensions, and fit of plates, planking, framing, and fitting. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provide technical guidance to Skill Level 10 personnel; repairs and inspects marine hulls and accessories; performs inspections to identify defects and to determine supplies and equipment required to effect maintenance; examines repaired hulls and accessories to insure that repaired watercraft and amphibians are seaworthy. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a small facility involved in repairing marine hulls and accessories; estimates repair work in terms of time, material, manpower, and priorities; plans and organizes work schedules and assigns duties to subordinate personnel; instructs and supervises subordinates in work techniques and procedures; requisitions, issues, stores, and maintains records of supplies and equipment; prepares maintenance records, reports, and work orders; reviews, consolidates, and prepares technical, personnel, and administrative reports; performs nondestructive testing. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans, directs, and coordinates the activities of a large facility involved in repair of marine hulls and accessories; plans and directs marine salvage operations on stranded or sunken craft; estimates all costs and establishes priority of tasks; supervises and directs nondestructive testing on harbor craft and amphibians.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in welding theory, 3 in gas welding, 3 in inert gas welding, 3 in vessel fabrication and construction, and 3 in vessel maintenance, for a total of 15 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, and 3 in personnel supervision (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 for field experience in management, 3 in maintenance management, and 3 in personnel supervision, for a total of 12 semester hours (6/76).

MOS-61Z-001

MARINE SENIOR SERGEANT

61Z50

Exhibit Dates: 10/73-Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Is a mid-level manager responsible for approximately 150 subordinate personnel engaged in watercraft operation and maintenance; assists in planning, implementing, and coordinating administrative activities, operations, and training programs; prepares, edits, and consolidates reports, records, plans, and training materials. NOTE: May have progressed to 61Z50 from 61B40 (Watercraft Operator), 61C40 (Watercraft Engineer), or 61F40 (Marine Hull Repairman).

Recommendation

In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 in records administration, for a minimum total of 15 semester hours; and *if the duty assignment was chief instructor,* 3 additional semester hours for an internship in education, for a total of 18 semester hours (6/76).

MOS-62B-001

ENGINEER EQUIPMENT REPAIRMAN

62B10
62B20
62B30
62B40
62B50

Exhibit Dates: 10/73-8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Maintains and repairs construction and off-the-road equipment. *Skill Level 10:* Is a heavy equipment repairman helper; changes oil and filters; lubricates equipment; drains and flushes radiators; repairs tires and tubes; uses pioneer tools, winches, and related equipment; serves as a recovery vehicle or wrecker crewman; serves as a toolroom keeper. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects equipment for damage and wear; services and adjusts engines, clutches, carburetors, fuel systems, cooling systems, electrical components, brakes, and transmission assemblies; rigs construction equipment; repairs or replaces wheel bearings; operates recovery vehicles and wreckers; uses oxyacetylene and electric welding equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects, disassembles, and repairs power transmission units, engines, gears, shafts, and track and steering assemblies; reconditions and assembles such units as final drives, hydraulic systems, and crawler assemblies; uses precision measuring devices and power shop tools. *Skill Level 40:* Able to perform the duties required for Skill Level 30; organizes and coordinates maintenance shop activities; establishes work schedules and priorities; instructs and supervises subordinate personnel; applies quality and production control procedures; test-operates repaired equipment; supervises keeping of records; prepares reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; assists superiors in establishing maintenance policies and procedures; instructs subordinate supervisors; plans, coordinates, and oversees all maintenance activities; conducts on-the-job training; may serve as a chief instructor in a mechanical maintenance school.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of tools and 3 in heavy equipment mechanics. In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment mechanics. In a heavy equipment mechanic apprentice training program, 700 clock hours of experience and 144 contact hours of related instruction (3/75).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in basic welding, and 6 in heavy equipment mechanics, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic welding and 6 in heavy equipment mechanics. In a heavy equipment mechanics apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in basic welding, and 15 in heavy equipment mechanics, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic welding and 15 in heavy equipment mechanics, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 16 semester hours. In a heavy equipment mechanic or a heavy-duty truck mechanic apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in records administration, 3 in welding, and 15 in heavy equipment mechanics, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in records administration, 2 in personnel supervision, 3 in welding, and 15 in heavy equipment mechanics, on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, credit in heavy equipment management on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a heavy equipment mechanic or a diesel truck mechanic (3/75).

Recommendation, Skill Level 50

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in records administration, 3 in welding, and 15 in heavy equipment mechanics, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in records administration, 3 in welding, 3 in personnel supervision, and 15 in heavy equipment mechanics, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, credit in heavy equipment management on the basis of institutional evaluation; *if the duty assignment was chief instructor,* a minimum of 3 semester hours for field experience in education and additional credit in education on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a heavy equipment mechanic or a diesel truck mechanic (3/75).

MOS-62B-002

CONSTRUCTION EQUIPMENT REPAIRMAN
(ENGINEER EQUIPMENT
REPAIRMAN)

62B10
62B20
62B30
62B40

Exhibit Dates: 9/75-2/78.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on engineer construction equipment, including powered bridging equipment. *Skill Level 10:* Performs maintenance on gasoline, diesel, and electrically powered engineer construction and associated equipment; performs preventive maintenance, including changing oil, replacing oil filters and air cleaners, draining and flushing radiators, and tightening body and chassis clamps and bolts; inspects, disassembles, repairs, and reassembles carburetors, fuel systems, cooling systems, electrical systems, transmission assemblies, and brake systems; reconditions and assembles such units as clutches, steering clutches, final drives, crawler assemblies, hydraulic systems, and track and stabilizer assemblies; uses hand tools, test equipment, powered shop tools, and oxyacetylene and electrical welding equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; diagnoses malfunctions and determines the level of maintenance to be performed; establishes work priorities; writes work orders and makes assignments; instructs subordinate personnel in inspection, maintenance, and testing practices and procedures; applies quality and production control procedures; performs final inspection of repaired equipment; supervises keeping of work records; prepares reports of unit activites. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises engineer equipment maintenance and repair activities of a large unit, depot, or subordinate units; supervises between 15 and 60 mechanics.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in heavy equipment mechanics, 1 in basic welding, and 1 in use and care of tools, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in heavy equipment mechanics and 1 in basic welding. In a heavy equipment mechanic or diesel mechanic apprentice training program, 500 clock hours of experience and 315 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In a heavy equipment mechanic or diesel mechanic apprentice training program, 1,500 clock hours of experience and 315 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in heavy equipment mechanics, 3 in welding, 1 in use and care of tools, and 1 in records administration, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in heavy equipment mechanics, 3 in welding, 2 in personnel supervision, 1 in use and care of tools, and 1 in records administration, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, credit in heavy equipment management on the basis of institutional evaluation. In a heavy equipment mechanic or diesel mechanic apprentice training program, 6,000 clock hours of experience and 550 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 15 semester hours in heavy equipment mechanics, 3 in welding, 3 in personnel supervision, 1 in use and care of tools, and 1 in records administration, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management, and additional credit in heavy equipment management on the basis of institutional evaluation, for a minimum total of 6 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a heavy equipment mechanic or diesel mechanic on the basis of employer or trade association performance examination (12/75).

MOS-62B-003

CONSTRUCTION EQUIPMENT REPAIRER

62B10
62B20
62B30
62B40

Exhibit Dates: 3/78-Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 66 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on engineering construction equipment, including powered bridging equipment and power generation equipment. *Skill Level 10:* Performs maintenance on gasoline, diesel, and electrically powered construction and associated equipment; performs preventive maintenance, including all servicing; isolates malfunctions by using appriate electric or hydraulic diagnostic equipment and technical publications; inspects, disassembles, repairs, and reassembles carburetors, fuel systems, cooling systems, electrical systems, transmission assemblies, and brake systems; reconditions and assembles clutches, steering clutches, final drives, hydraulic systems, and crawler assemblies; removes and overhauls engines;

uses hand tools, test equipment, powered shop tools, and oxyacetylene and electrical welding equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; performs and records results of technical inspections; uses and maintains specialized shop equipment, test sets, and technical publications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and inspects maintenance of engineering construction equipment; determines extent of repair and overhaul needed for equipment; controls requisitioning, storage, inventory of tools and supplies; plans and schedules work assignments and priorities; performs complex diagnosis and repair of all equipment; supervises record keeping and prepares activity reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides general management and supervision for maintenance on all engineering construction equipment, power generation equipment, and associated items; observes performance of lower skill level personnel; ensures compliance with safety regulations and practices; inspects work to ensure compliance with standard operating procedures, safety standards and technical publications; analyzes productivity and work quality; participates in research and development activities.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 6 semester hours in heavy equipment mechanics, 1 in basic welding, and 1 in use and care of tools, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in heavy equipment mechanics, and 1 in basic welding (7/79).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in heavy equipment mechanics, 2 in basic welding, 1 in care and use of tools, and 1 in records maintenance, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in heavy equipment mechanics, 2 in basic welding, 1 in records maintenance, and 2 in personnel supervision, for a total of 14 semester hours (7/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 9 semester hours in heavy equipment mechanics, 2 in basic welding, 1 in records maintenance, and 3 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (7/79).

MOS–62C–001

ENGINEER MISSILE EQUIPMENT SPECIALIST

62C20
62C30
62C40

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 62C was discontinued and its functions were incorporated into MOS 52C, Utilities Equipment Repairer, and MOS 62B, Construction Equipment Repairer.)

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Installs, maintains, and repairs air compressors, gasoline engines, air conditioning units, elevators, and power generation equipment. *Skill Level 20:* Installs, maintains, and repairs portable generators, air compressors, gasoline engines, air conditioning units, and missile elevators; uses mechanical and electrical hand tools, and measuring and testing *devices; isolates,* diagnoses, and repairs equipment malfunctions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; removes and replaces faulty assemblies and subassemblies; determines type of maintenance required; fabricates metal parts; test-operates new or repaired equipment; uses test equipment to trace electrical and refrigeration circuits; establishes on-the-job training programs; may supervise up to 9 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; determines workload and prepares schedules and inspection reports; performs final inspection and test-operations on repaired equipment; supervises up to 18 persons.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in air conditioning and refrigeration mechanics, 5 in basic electricity, 5 in electrical wiring, 5 in motor and generator repair, and 5 in diesel mechanics, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 8 semester hours in air conditioning and refrigeration repair, 3 in electrical wiring and controls, 3 in applied electricity, 3 in power mechanics, and 3 in diesel mechanics, for a total of 20 semester hours. Journeyman status as an industrial maintenance electrician (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), as a construction electrician-residential (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), or as an electric motor-and-tools repairman (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in air conditioning and refrigeration mechanics, 5 in basic electricity, 5 in electrical wiring, 5 in motor and generator repair, 5 in diesel mechanics, and 2 in fabrication processes, for a total of 34 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in air conditioning and refrigeration repair, 4 in applied electricity, 3 in electrical wiring and controls, 3 in power mechanics, 3 in diesel mechanics, and 2 in human relations, and additional credit in personnel supervision, on the basis of institutional evaluation, for a minimum total of 24 semester hours. Journeyman status as an industrial maintenance electrician (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), as a construction electrician-residential (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), or as an electric motor-and-tools repairman (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 9 semester hours in air conditioning and refrigeration repair, 4 in applied electricity, 3 in electrical wiring and controls, 3 in power mechanics, 3 in diesel mechanics, 3 in human relations, 3 in personnel supervision, and 2 in introduction to management, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts. Journeyman status as an industrial maintenance electrician (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), as a *construction electrician-residential* (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), or as an electric motor-and-tools repairman (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) (6/76).

MOS–62D–001

ASPHALT EQUIPMENT OPERATOR

62D20
62D40

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 62D was discontinued and its functions were incorporated into MOS 62H, Concrete and Asphalt Equipment Operator, and MOS 62N, Construction Equipment Supervisor.)

Career Management Field: 51 (General Engineering) *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates self-powered machines and accessories used in asphalt heating and dedrumming equipment, asphalt producing, and surfacing operations. *Skill Level 20:* Operates soil mixing, aggregate drying, asphalt distributing, and asphalt finishing machines to produce, lay, and finish asphalt products and surfaces; sets equipment controls for optimum efficiency; notes and corrects or assists in correcting any malfunctions or deficiencies in the operation of equipment; cleans, lubricates, inspects, and services paving machines. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel engaged in asphalt producing and paving operations; supervises all phases of asphalt production and surfacing operations; interprets information contained in material gradation percentage charts; estimates work loads and schedules personnel and equipment for continuous asphalt producing and surfacing operations; prepares operational reports as to hours, tonnage, and yardage output; keeps production and allied operations records.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in asphalt paving machine operation and technology, 10 in asphalt plant operation and technology, 5 in construction material processing and storage, and 5 in basic construction equipment operation, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction materials processing and application, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of 7 semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 10 semester hours in asphalt paving machine operation and technology, 10 in asphalt plant operation and technology, 5 in construction material processing and storage, 5 in basic construction equipment operation, and 1 in record keeping, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction material processing and application, 3 in construction management, 3 for field experience in management, 2 in personnel supervision, 1 in record keeping, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of [illegible] semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 40 semester hours. In the upper-division baccalaureate category, 3 semester hours of construction design and 2 in methods of construction, for a minimum total of 5 semester hours, and additional credit in management on the basis of institutional evaluation up to a maximum total of 9 semester hours (12/75).

MOS-62E-001

Crawler Tractor Operator

62E20

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates crawler tractors and attachments, including towed scrapers; performs land-clearing, stripping, grubbing, earthmoving, and demolition tasks; spreads earth and rock fill; detects and identifies equipment malfunctions and assists in repairs; performs preventive maintenance such as cleaning, inspecting, lubricating, and minor adjustments and repairs.

Recommendation

In the vocational certificate category, 5 semester hours in heavy equipment operation and 5 in mechanical maintenance (12/75).

MOS-62E-002

Heavy Construction Equipment Operator

62E10

62E20

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 515 (Construction Equipment Operation).

Description

Summary: Operates crawler and wheeled tractors with dozer attachments, scoop loader, motorized grader, and towed or self-propelled scraper. *Skill Level 10:* Clears, grubs, strips, rough-grades, excavates, backfills, levels, slopes, cuts, ditches, and stockpiles with crawler, wheeled tractor with dozer attachment, and scoop loader; under supervision; operates motorized grader and towed or self-propelled scooper; loads equipment for movement and drives tractor-trailer for hauling; performs operator maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; strips, scarifies, cuts, fills, spreads, backfills, backblades, ditches, and slopes with motorized grader; removes overburden; loads and spreads with tractor-scraper; windrows, blends, and spreads asphalt road mix; mixes soil stabilization materials; performs surface and drainage maintenance; performs operator maintenance.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 5 semester hours in heavy equipment operation and 5 in mechanical maintenance (7/79).

MOS-62F-001

Crane Operator

62F20

62F30

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates cranes and crane shovels of stationary, crawler, and truck-mounted types used to hoist and transport heavy objects and to perform excavation. *Skill Level 20:* Operates crane with hook and block operated by single drum; receives instructions from a supervisor on a specific work assignment; performs preoperation inspection and servicing on crane and related equipment; moves crane to and from worksite; determines lift and rigging requirements; performs after-operation inspection and maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates and maintains crane shovel with clamshell, dragline, shovel backhoe, piledriver, and related attachments; connects attachments and reaves cable.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in single-drum crane operation (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 10 semester hours in single-drum crane operation, 1 in powertrains and undercarriages, and 1 in rigging, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in revolving shovel and crane equipment and 1 in material hoisting and handling (12/75).

MOS-62F-002

Lifting and Loading Equipment Operator

62F10

62F20

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 515 (Construction Equipment Operation).

Description

Summary: Operates cranes and crane shovels of stationary, crawler, and truck-mounted types; operates rough terrain forklifts. *Skill Level 10:* Drives wheel-mounted cranes; loads crane shovel on vehicle for transport; maneuvers boom with spreader, hook, sling, or other device to attach, lift, swing, or lower loads in response to signals; directs rigging load and estimates safe lifting capacity; loads and unloads containerized, palletized, and unpalletized items on various types of surfaces; assists in operation of crane shovel with attachments; performs operator maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs ditching, sloping, excavating, and stockpiling with dragline; digs, loads, and stockpiles with clamshell; ditches and excavates with backhoe; performs pile setting and driving operations; levels, face cuts, and excavates with shovel front; operates special-purpose heavy cranes at industrial facilities; performs operator maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in crane operation and 5 in equipment maintenance (7/79).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in crane operation and 5 in equipment maintenance (7/79).

MOS-62G-001

Quarryman

62G20

62G30

62G40

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates electric, pneumatic, and internal combustion powered machines used in drilling, crushing, grading, and cleaning gravel and rock; detonates explosives to blast rock in quarries and at construction sites. *Skill Level 20:* Performs as a quarry machine operator; determines screen sizes and crusher settings to produce specification aggregate; identifies kind and quality of aggregate by simple field tests; notes and corrects or assists in correcting any machine malfunctions or deficiencies; performs preventive maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs as powderman; able to use explosives above ground, underground, and underwater; determines hole spacings and power charges; operates rock drills. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises all phases of quarry operations.

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in crusher operation and 5 in aggregate sampling and field testing. In the lower-division baccalaureate/associate degree category, 2 semester hours in crushing, screening, and washing plants and 1 in construction materials handling and storage (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in crusher operation, 5 in aggregate sampling and field testing, and 2 in mining, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 2 in crushing, screening, and washing plants, 1 in construction materials handling and storage, 1 in mining and tunneling, and 1 in functions of grade stakes, for a total of 8 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in field supervision, 5 in crusher operation, 5 in aggregate sampling and field testing, and 2 in mining, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in field supervision, 2 in crushing, screening and washing plants, 1 in recordkeeping, 1 in construction materials handling and storage, 1 in mining and tunneling, and 1 in functions of grade stakes, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (12/75).

MOS-62G-002

QUARRYING SPECIALIST

62G10
62G20
62G30

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 515 (Construction Equipment).

Description

Summary: Operates or supervises the operation of electric, pneumatic, and internal combustion powered machines used in drilling, crushing, grading, and cleaning gravel and rock; detonates explosives to blast rock in quarries and at construction sites. *Skill Level 10:* Under supervision, assembles, erects, adjusts, and operates the crushing, screening, conveying, and washing units; operates rock drills; maintains tools and equipment; assists powder man. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; determines screen sizes and crusher setting to produce aggregate to specifications; identifies the type and quality of aggregate by simple field tests; notes and corrects or assists in correcting machine malfunctions and deficiencies; performs routine maintenance; performs as blaster, is able to transport and use explosives; determines drilling pattern, depth, and spacing of bore holes; operates various rock drills. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises all phases of quarry operation.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in machine operation (8/79).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in machine operation, 5 in testing and sampling, and 2 in personnel supervision and training, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in machine operation, 1 in testing and sampling, and 2 in personnel supervision, for a total of 5 semester hours (8/79).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in machine operation, 5 in testing and sampling, 3 in personnel supervision and training, and 6 in plant management, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in machine operation, 1 in testing and sampling, 3 in personnel supervision and training, 3 in plant management, and 3 in construction management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (8/79).

MOS-62H-001

CONCRETE PAVING EQUIPMENT OPERATOR

62H20
62H40

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates self-powered machines used in concrete producing and paving operations. *Skill Level 20:* Sets up concrete producing and surfacing equipment; operates concrete batching plant, and mixing, spreading, and finishing machines to produce concrete by formula or specifications and to spread concrete to desired thickness; sets equipment controls for optimum efficiency; notes equipment malfunctions or deficiencies and repairs or assists in the repair of equipment; performs equipment maintenance services such as cleaning, lubricating, inspecting, and minor adjustments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises all phases of concrete producing and paving operations; supervises personnel and assigns work; interprets and utilizes information contained in material gradation charts; prepares operational reports; instructs subordinate personnel.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in concrete paving machine operation and technology, 10 in concrete plant operation and technology, 5 in construction material processing and storage, and 5 in basic construction equipment operation, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction material processing and application, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of 7 semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 10 semester hours in concrete paving machine operation and technology, 10 in concrete plant operation and technology, 5 in construction material processing and storage, 5 in basic construction equipment operation, and 1 in recordkeeping, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction material processing and application, 3 in construction management, 3 for field experience in management, 2 in personnel supervision, 1 in record keeping, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of 16 semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 40 semester hours. In the upper-division baccalaureate category, 3 semester hours of construction design and 2 in methods of construction, for a minimum total of 5 semester hours, and additional credit in management on the basis of institutional evaluation up to a maximum total of 9 semester hours (12/75).

MOS-62H-002

CONCRETE & ASPHALT EQUIPMENT OPERATOR

62H10
62H20
62H30

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 515 (Construction Equipment Operator).

Description

Summary: Supervises or operates all equipment used in concrete and asphalt production and paving. *Skill Level 10:* Operates concrete mobile mixer truck; assists plant equipment operator in operation of equipment and machines used in asphalt production and paving; loads unmixed materials in concrete mobile mixer; adjusts controls to obtain required mix proportion and slump at the job site; assists in operation of spreading and finishing equipment; assists in erection, operation, and maintenance of asphalt producing plant; operates asphalt distributor and aggregate spreader; assists in operation of asphalt paving and surfacing equipment. *Skill Level 20:* Able to perform duties required for Skill Level 10; operates all equipment and machines used in asphalt production and paving and concrete paving operations; erects, operates, and maintains asphalt plant; directs preparation and placement of concrete with mobile mixer truck. *Skill Level 30:* Able to perform duties required for Skill Level 20; supervises all aspects of asphalt and concrete production and paving operations; plans and directs layout and erection of asphalt plant; supervises production of hot plant mix asphalt; directs asphalt placing and rolling operations; supervises concrete mobile mixer truck use and employment; supervises concrete and asphalt equipment maintenance and training programs.

Recommendation, Skill Level 10

In the vocational certificate category, *if the individual has experience in the operation of asphalt paving equipment,* 5 semester hours in operation of asphalt paving equipment; *if the individual has experience in the operation of concrete equipment,* 5 semester hours in operation of concrete equipment, for a maximum total of 10 semester hours (2/80).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10 plus 5 semester hours in handling and storage of materials, for a total of 10 or 15 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in construction material processing and application (2/80).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in construction material processing and application, 3 in construction management, and 2 in personnel supervision, for a total of 7 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (2/80).

MOS-62J-001

General Construction Machine Operator

62J20

62J30

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates a variety of equipment in support of construction projects, including air compressors, drilling equipment, pumps, soil processing equipment, materials application equipment; possesses a basic understanding of soils mechanics, strength of materials, hydrology, mechanics, concrete, and asphalt. *Skill Level 20:* Performs as a utility equipment operator; selects proper bits, power units, and attachments for drills, air compressors, pumps, and rotary equipment; notes and assists in repairing equipment malfunctions; performs preventive and operational maintenance and inspects equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as well driller, drilling water wells and developing existing dug wells; possesses sufficient knowledge of geology, hydrology, and soils to make a finite analysis of drill cores to determine whether the strata being examined can produced the desired amount of water; installs well casings; prepares and analyzes electronic well logs; performs preventive maintenance on electronic well-logging equipment; sets up well screens and pumping equipment; grouts and gravel-packs wells; analyzes terrain and geologic features to determine the best probable location for a well; follows proper safety procedures associated with drilling operations; maintains records of drilling operations and product output.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in construction equipment operation and 10 in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 5 semester hours in construction equipment operation and 5 in mechanical maintenance (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 40 semester hours and certification as a well drilling superintendent. In the lower-division baccalaureate/associate degree category, 5 semester hours in construction equipment operation, 5 in mechanical maintenance, 3 in electricity and electronics, and 3 in geology and hydrology, for a total of 16 semester hours (12/75).

MOS-62J-002

General Construction Equipment Operator

62J10

62J20

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (Engineering), *subfield* 515 (Construction Equipment Operation).

Description

Summary: Operates a variety of equipment in support of construction projects, including air compressors and special-purpose construction machines engaged in compaction, ditching, pumping, augering, and well-drilling operations. *Skill Level 10:* Operates pneumatic wood borer, rock drill, air blower gun attachment, nail driver, sump pump, paving breaker, chain and circular saw, grinder, concrete vibrator, and backfill tamper; operates power roller over foundations, filler stones and cover stone courses and surface treatments, asphalt macadam, road mix and hot-mix pavement; operates water distributor in compaction and dust control operations; performs operator maintenance; assists in operation of ditching machines. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates utility tractor with loader and backhoe, general purpose excavators and attachments, earth auger, and ditching machines; performs leveling, backfilling, rough grading, stockpiling, ditch digging, and loading with utility tractor loader and backhoe; drills vertical and angled holes of appropriate diameter to proper depth with earth auger for demolitions support, fence posts, power poles, and anchor posts.

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in machine operations and 10 in equipment maintenance (7/79).

Recommendation, Skill Level 20

In the vocational certificate category, 15 semester hours in machine operation and 15 in equipment maintenance (7/79).

MOS-62K-001

Grader Operator

62K20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 62K was discontinued and its functions were incorporated into MOS 62E, Heavy Construction Equipment Operator.)

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates construction motor grader and attachments under supervision; performs inspections and service on equipment; interprets information on surveyors' grade stakes; judges terrain and determines required action to alter variation to conform to construction design; spreads and grades aggregate-asphalt and soil-asphalt road mixes.

Recommendation

In the vocational certificate category, 10 semester hours in motor grader operation, 5 in machine maintenance, and 1 in grades and grade stakes, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in material processing and application, 2 in construction plans, 2 in power sources and power systems, and 1 in grades and grade stakes, for a total of 8 semester hours (12/75).

MOS-62L-001

Wheeled Tractor Operator

62L20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 62L was discontinued and its functions were incorporated into MOS 62E, Heavy Construction Equipment Operator.)

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates wheeled tractors, rubber-tired dozers with attachments, self-propelled scrapers, and heavy-duty quarry trucks; interprets the information on grade stakes.

Recommendation

In the vocational certificate category, 10 semester hours in wheeled tractor operation (2/75).

MOS-62M-001

Rough Terrain Forklift and Loader Operator

62M20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 62M was discontinued and its functions were incorporated into MOS 62E, Heavy Construction Equipment Operator, and MOS 62F, Lifting and Loading Equipment Operator.)

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates rough-terrain forklifts and scoop loaders.

Recommendation

In the vocational certificate category, 10 semester hours in forklift and scoop loader operation (2/75).

MOS-62N-001

Construction Machine Supervisor

62N40

62N50

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Supervises construction machinery operations and operator and crew maintenance of equipment. *Skill Level 40:* Performs duties comparable to those of a civilian assistant job superintendent on a construction site; has technical skills, competencies, and knowledge equivalent to those acquired through an associate degree program in operating engineer technology; supervises employment of all kinds of construction machinery in support of construction operations; organizes machinery operations phases of construction projects; estimates equipment and operator requirements for specific jobs; coordinates construction machinery operations with related construction work; observes machine operations and inspects finished products; enforces safety rules; prepares reports on personnel, machine operations, training, and work progress; evaluates subordinates' work performance. NOTE: May have progressed to 62N40 from 51G20 (Soils Analyst), 62E20 (Crawler Tractor Operator), 62F30 (Crane Operator), 62J30 (General Construction Machine Operator), 62K20 (Grader Operator), 62L20 (Wheeled Tractor Operator), or 62M20 (Rough Terrain Forklift and Loader Operator). *Skill Level 50:* Able to perform the duties required for Skill Level 40; manages more than 200 persons engaged in a variety of construction equipment operation activities; performs duties comparable to those of a civilian construction superintendent or operations manager; as the principal noncommissioned officer in a construction equipment company, assists in planning, coordinating, and supervising all company activities; advises superiors on personnel matters. NOTE: May have progressed to 62N50 from 62N40, 62D40 (Asphalt Equipment Operator), 62G40 (Quarryman), or 62H40 (Concrete Paving Equipment Operator).

Recommendation, Skill Level 40

In the lower-division baccalaureate associate degree category, 10 semester hours in construction equipment, 25 for field experience in construction equipment operation, 3 in material processing and application, 3 in introduction to electricity, hydraulics, and pneumatics, 1 in basic powertrains and undercarriages, 1 in welding, rigging, soils, and compaction, 1 in fuels, oils, and lubricants, 1 in surveying (grades, grade stakes, and plans), and 1 in records administration, for a total of 46 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate/category, 6 semester hours for field experience in management and 3 in introduction to management, for a minimum total of 9 semester hours, and additional credit in construction management up to a maximum total of 30 semester hours (12/75).

MOS-62N-002

CONSTRUCTION EQUIPMENT SUPERVISOR

62N30
62N40

Exhibit Dates: 3/78–Present.

Career Management Field: 51 (General Engineering), *subfield* 515 (Construction Equipment Operation).

Description

Summary: Supervises construction equipment, quarry, paving, and plant equipment operations. *Skill Level 30:* Provides general supervision to personnel operating loading, lifting, heavy, and general construction equipment; supervises and coordinates activities of all above equipment, including drilling operations; determines most efficient type and application of equipment to be used in construction, maintenance, and repair projects; estimates equipment and operator requirements for specific jobs; conducts on-the-job training and assists in supervision of unit engaged in construction equipment operations; maintains records; assists job superintendent at civilian construction site. NOTE: May have progressed to 62N30 from 62J20 (General Construction Equipment Operator), 62E20 (Heavy Construction Equipment Operator), or 62F20 (Lifting and Loading Equipment Operator). *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides general supervision over all phases of construction operations; coordinates the activities of personnel, equipment, and machinery; prepares operational reports; keeps production records; equivalent to job superintendent on civilian construction site.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in construction management, 3 in record keeping, and 3 for field experience in management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in maintenance management (8/79).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalureate category, 6 semester hours for field experience in management, 3 in personnel management, 3 in maintenance management, and 3 in report writing, for a total of 15 semester hours (8/79).

MOS-63B-001

WHEEL VEHICLE MECHANIC

63B20
63B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Automotive Maintenance).

Description

Summary: Diagnoses malfunctions and repairs internal-combustion engines, accessories, powertrains, and chassis components of wheel vehicles; adjusts operating mechanisms such as valve tappets, carburetors, governors, ignition system points, control linkage, clutches, and brakes; performs tune-ups; operates wreckers. *Skill Level 20:* Replaces engine components such as fuel pumps, generators, regulators, brake shoes and fittings, and winches; road tests vehicles; prepares and keeps maintenance forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; establishes shop practices and procedures; plans and organizes work schedules and the use of facilities and equipment; instructs and supervises subordinate personnel; applies production and quality control principles; requisitions parts, tools, and supplies.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, up to 9 semester hours may be granted on the basis of institutional evaluation (3 semester hours in automotive mechanics, 3 in diesel mechanics, and 3 in truck mechanics). In an automotive, diesel, or truck mechanic apprentice training program, 400 clock hours of experience and 70 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in truck mechanics, and 1 in shop practices and procedures, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in truck mechanics, and 3 in personnel supervision and training, and additional credit on the basis of institutional evaluation, for a minimum total of 18 semester hours. In an automotive, diesel, or truck mechanic apprentice training program, 6,000 clock hours of experience and 140 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS-63B-002

WHEEL VEHICLE MECHANIC

63B10
63B20
63B30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Diagnoses malfunctions and repairs internal-combustion engines, accessories, powertrains, and chassis components of wheel vehicles; adjusts operating mechanisms such as valve tappets, carburetors, governors, ignition system points, control linkage, clutches, and brakes; performs tune-ups; operates wreckers. *Skill Level 10:* Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms; prepares maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinate personnel in appropriate practices and procedures; requisitions spare parts, tools, and supplies.

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 400 clock hours of experience and 70 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 1,500 clock hours of experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an automotive, diesel, or truck mechanic apprentice training program, 2,000 clock hours of job experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-63C-001

Track Vehicle Mechanic

63C20

63C40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Diagnoses wheel and track vehicles, using test equipment and sequential tests; applies knowledge of internal combustion engines and accessories, powertrains, and chassis components of track vehicles; road tests vehicles; operates wreckers. *Skill Level 20:* Performs preventive maintenance and general servicing work, including tune-ups, on both gasoline and diesel combustion engines; keeps maintenance operating forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, planning and organizing work schedules, shop practices, and the use of facilities and equipment; instructs and supervises subordinate personnel; requisitions parts, tools, and supplies.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in automotive mechanics, 3 in diesel mechanics, and 3 in industrial truck mechanics, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive mechanics, 3 in diesel mechanics, and 3 in industrial truck mechanics, for a maximum total of 9 semester hours, on the basis of institutional evaluation. In an automotive, diesel, or industrial truck mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, and 5 in industrial truck mechanics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in industrial truck mechanics, 3 in personnel supervision, and 1 in records administration, and additional credit on the basis of institutional evaluation, for a minimum total of 19 semester hours. In an automotive, diesel, or industrial truck mechanic apprentice training program, a minimum of 6,000 clock hours of experience and 214 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS-63C-002

Track Vehicle Mechanic

63C10

63C20

63C30

63C40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Applies knowledge of operating principles of internal-combustion engines, accessories, powertrains, and chassis components to wheel and track vehicles. *Skill Level 10:* Performs detailed diagnoses of wheel and track vehicles; adjusts operating mechanisms such as valve tappets, carburetors, governors, ignition system points, linkage, clutches, and brakes; times magnetos, distributors, injectors, and pumps; replaces components such as fuel pumps, starters, carburetors, generators, regulators, universal joints, brake shoes, and drive sprockets; road tests vehicles; prepares and keeps maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans and organizes work schedules and shop practices; assigns duties; performs operational and administrative duties; instructs and supervises subordinate personnel in appropriate maintenance practices and procedures. *Skill Level 40:* Able to perform the duties required for 63C30, 63B30 (Wheel Vehicle Mechanic), or 63F30 (Recovery Specialist); supervises maintenance on track and wheel vehicles; supervises vehicle recovery operations and tire and tube activities.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 6 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 500 clock hours of experience and 267 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, a minimum of 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 1,500 clock hours of experience and 267 contact hours of related instruction and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in automotive, truck, or diesel mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, truck, or diesel mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in an automotive, diesel, or truck mechanics program on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an automotive, diesel, or truck mechanic apprentice training program, 4,000 clock hours of experience and 267 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 15 semester hours in automotive, diesel, or truck mechanics, 3 in personnel supervision, and 1 in records administration, and additional credit in automotive mechanics, diesel mechanics, and truck mechanics on the basis of institutional evaluation, for a minimum total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management, *only if the duty assignment was tire repair foreman or recovery sergeant.* In an automotive, diesel, or truck mechanic apprentice training program, 6,000 clock hours of experience and 267 contact hours of related instruction (12/75).

MOS-63F-001

Recovery Specialist

63F10

63F20

63F30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Operates and performs operator maintenance on all types of wreckers, recovery vehicles, and associated equipment and accessories. *Skill Level 10:* Performs recovery and evacuation operations for abandoned, damaged, disabled, or mired light or heavy wheel or track vehicles; prepares recovery vehicle equipment for use; maneuvers recovery vehicles, selecting the most desirable positions for wreckers, trailers, full tracked recovery vehicles or transporters; uses winches, cranes, booms, jacks, block and tackle gear; applies lines and rigs; performs operator maintenance on recovery vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance for Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, organizes, and supervises recovery operations; assigns duties; conducts on-the-job training; requisitions spare parts, tools, and supplies; schedules and coordinates equipment for periodic maintenance.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in an automotive mechanics program. In a rigger apprentice training program, 1,000 clock hours of experience (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in an automotive mechanics program, 2 in personnel supervision, and 1 in records administration, and additional credit on the basis of institutional evaluation, for a minimum total of 11 semester hours. In a rigger apprentice training program, 1,000 clock hours of experience (12/75).

MOS-63G-001

Fuel and Electrical Systems Repairer
(Fuel and Electrical Systems
Repairman)

63G10

63G20

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Removes, disassembles, and repairs fuel and electrical systems and components. *Skill Level 10:* Diagnoses and performs direct and general support maintenance on fuel and electrical systems of wheel and track vehicles and material handling equipment; tests, adjusts, and repairs fuel and electrical system components. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to lower grade personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in fuel and electrical systems. In the lower-division baccalaureate/associate degree category, 9 semester hours in fuel and electrical systems, and additional credit on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or heavy-duty equipment mechanic apprentice training program, 500 clock hours of experience and 400 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in fuel and electrical systems. In the lower-division baccalaureate/associate degree category, 9 semester hours in fuel and electrical systems, and additional credit on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or heavy-duty equipment mechanic apprentice training program, 1,500 clock hours of experience and 400 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-63H-001

AUTOMOTIVE REPAIRMAN

63H20
63H30
63H40

Exhibit Dates: 10/73-8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Automotive Maintenance).

Description

Summary: Disassembles, reassembles, and tests transmissions, engines, differentials, brakes, and other automotive components. *Skill Level 20:* Uses measuring and hand tools such as calipers, micrometers, wrenches, and torches; under supervision, repairs, adjusts, replaces, and overhauls engines, clutches, transmissions, differentials, steering assemblies, hydraulic cylinders, and brakes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; troubleshoots electrical and mechanical failures; repairs, overhauls, and installs fuel systems and electrical components; applies information contained in technical and trade manuals; instructs and assists subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; supervises a minimum of six subordinates; plans and organizes work schedules; writes job tickets; prepares maintenance forms and records; requisitions parts, supplies, and equipment; keeps a file of technical publications; applies production and quality control procedures and standards.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in auto mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in auto mechanics and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in auto mechanics. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in auto mechanics and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics, 1 in records administration, and 2 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, credit in automotive technology on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as an automotive, truck, heavy-duty truck, or equipment mechanic (2/75).

MOS-63H-002

AUTOMOTIVE REPAIRMAN

63H10
63H20
63H30
63H40

Exhibit Dates: 9/75-2/77.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Disassembles, reassembles, and tests transmissions, engines, differentials, brakes, and other automotive components. *Skill Level 10:* Under supervision, repairs, adjusts, replaces, and overhauls engines, clutches, transmissions, differentials, steering assemblies, hydraulic cylinders, and brakes; uses measuring and hand tools such as calipers, micrometers, wrenches, and torches. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; performs maintenance on engine, powertrain, and chassis components of wheel and track vehicles and material-handling equipment, excluding the propulsion motor on electric material-handling equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises automotive maintenance and fuel and electrical system repair operations; performs complete technical inspection of fuel and electrical systems repairs and repair or overhaul of engine powertrain and chassis components; plans and organizes work schedules; assigns duties; instructs subordinate personnel in proper maintenance practices, procedures, and techniques; applies quality and production control procedures; uses and keeps a file of technical publications; requisitions spare parts, tools, and supplies. NOTE: May have progressed to 63H30 from 63H20 or 63G20 (Fuel and Electrical Systems Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises repair of automotive and quartermaster equipment; supervises a minimum of 20 subordinate personnel. NOTE: May have progressed to 63H40 from 63H30 or 63J30 (Quartermaster Equipment Repairman).

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in auto mechanics and 1 in use and care of hand tools. In the lower-division baccalaureate/associate degree category, 9 semester hours in auto mechanics and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 500 clock hours of experience and 400 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in auto mechanics and 1 in use and care of hand tools. In the lower-division baccalaureate/associate degree category, 9 semester hours in auto mechanics, and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 1,500 clock hours of experience and 400 contact hours of related instruction (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in auto mechanics, 3 in shop practices and procedures, and 1 in use and care of hand tools, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in auto mechanics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the upper-division baccalaureate category, credit in management or administration on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in auto mechanics, 3 in shop practices and procedures, and 1 in use and care of hand tools, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in auto mechanics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management, and additional credit in management, administration, and automotive technology on the basis of institutional evaluation, for a minimum total of 6 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as an automotive, truck, heavy-duty truck, or equipment mechanic (12/75).

MOS-63H-003

AUTOMOTIVE REPAIRER
(AUTOMOTIVE REPAIRMAN)

63H10
63H20
63H30
63H40

Exhibit Dates: 3/77–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Performs maintenance on wheel and track vehicles and materials-handling equipment, excluding propulsion motor on electrical materials-handling equipment. *Skill Level 10:* Diagnoses and analyzes engine, powertrain, and chassis component malfunctions by visual and auditory examination and by use of test equipment; isolates causes of malfunctions by systematic elimination of possible trouble; tests, repairs, overhauls, adjusts and replaces assemblies, subassemblies and components such as engines (gasoline, diesel, and multifuel), clutches, transmissions, differentials, steering assemblies, transfer case and hydraulic cylinders and components by replacing valves, shafts, gears, bearings, rings and seals, using jacks, pullers, gauges and jigs. *Skill Level 20:* Performs the duties required for Skill Level 10; provides technical guidance to lower skill level personnel in accomplishment of these duties. *Skill Level 30:* Able to perform the duties of Automotive Repairman (63H20) or Fuel and Electrical Systems Repairman (63G20); supervises automotive maintenance and fuel and electrical system repair operations or performs complete technical inspection of fuel and electrical system repairs and repair or overhaul of engine powertrain and chassis components; understands and applies information contained in technical publications to maintenance requirements; uses all types of measuring and testing equipment for alignment, adjustments, and functioning of components and assemblies; plans and organizes work schedules; assigns duties; supervises and instructs subordinate personnel in proper maintenance practices, procedures and techniques; applies production and quality control procedures; keeps file of technical publications; secures spare parts, tools, and supplies. NOTE: May have progressed to 63H30 from 63H20 or 63G20 (Fuel and Electrical Systems Repairman). *Skill Level 40:* Able to perform the duties of Automotive Repairman (63H30) or Quartermaster Equipment Repairman (63J30); supervises repair of automotive, chemical, and quartermaster equipment; serves as section chief, platoon sergeant, repair control sergeant or maintenance sergeant. NOTE: May have progressed to 63H40 from 63H30 or 63J30 (Quartermaster Equipment Repairman).

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 9 semester hours in auto mechanics and 1 in use and care of hand tools. In the lower-division baccalaureate/associate degree category, 9 semester hours in auto mechanics, 1 in use and care of hand tools, and additional credit in auto mechanics on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in auto mechanics, 3 in shop practices and procedures, and 1 in use and care of hand tools, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics, 1 in use and care of hand tools, 2 in personnel supervision, 3 in shop management, and 1 in records administration, and additional credit in auto mechanics on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, credit in management or administration on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management, and additional credit in management, administration, and automotive technology on the basis of institutional evaluation, for a minimum total of 6 semester hours (5/78).

MOS-63J-001

QUARTERMASTER EQUIPMENT REPAIRMAN

63J10
63J20
63J30

Exhibit Dates: 9/75–2/77.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on quartermaster machinery and special purpose equipment. *Skill Level 10:* Disassembles, repairs, reassembles, adjusts, and tests various types of quartermaster machinery and equipment such as sewing machines, stoves, gasoline lanterns, laundry units, bath units, bakery units, and special purpose equipment; performs maintenance on electrical circuits contained in this machinery and equipment; uses supply and technical literature, regulations, and manufacturers' catalogs in performing maintenance and making repairs. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical assistance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns, schedules, and supervises personnel engaged in installing, repairing, and maintaining quartermaster machinery and equipment; performs technical inspections.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of hand tools, 1 in basic electricity, 1 in use of testing equipment, and 1 in small appliance repair, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in small appliance repair. In a sewing machine repairman apprentice training program, 100 clock hours of experience (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In a sewing machine repairman apprentice training program, 200 clock hours of experience (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in small appliance repair and 3 for field experience in personnel management. In a sewing machine repairman apprentice training program, 300 clock hours of experience (12/75).

MOS-63J-002

QUARTERMASTER EQUIPMENT REPAIRER
(QUARTERMASTER EQUIPMENT REPAIRMAN)

63J10
63J20
63J30

Exhibit Dates: 3/77–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on chemical, quartermaster, and special-purpose equipment. *Skill Level 10:* Disassembles, repairs, reassembles, adjusts, and tests various types of quartermaster machinery and equipment such as sewing machines, gasoline lanterns, laundry units, bath units, or bakery units, and special-purpose equipment, including petroleum, oil, and lubricants equipment; performs maintenance on electrical circuits; performs welding, plumbing, and pipefitting tasks; uses supply and technical literature, regulations, and manufacturers' catalogs in performing maintenance and keeping records. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; if serves as foreman, supervises from 6 to 10 persons. *Skill Level 30:* Able to perform the duties required for Skill Level 20; must be able to supervise personnel performing duties of 63J20 and 54D20 (Chemical Equipment Repairman); supervises, assigns, and schedules personnel engaged in the repair and maintenance of chemical equipment, and quartermaster machinery and equipment; may serve as technical inspector; plans work activities and schedules work requests; supervises from 11 to 40 persons. NOTE: May have progressed to 63J30 from 63J20 or 54D20 (Chemical Equipment Repairman).

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of hand tools, 1 in basic electricity, 1 in use of testing equipment, and 1 in small-appliance repair, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in small-appliance repair and 1 in use and care of hand tools (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in small-appliance repair and 1 in use and care of hand tools; *if the duty position was quartermaster equipment repair foreman,* 3 semester hours in shop management, for a total of 5 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division bacca-

laureate/associate degree category, 2 semester hours in small-appliance repair and 3 for field experience in management, for a minimum total of 5 semester hours; *if the duty position was equipment repair foreman, chemical equipment repair foreman, or protection mask repair foreman,* 3 semester hours in shop management, for a total of 8 semester hours (5/78).

MOS-63Z-001

Mechanical Maintenance Supervisor

63Z50

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Supervises organizational, direct, and general support maintenance on all types of mechanical equipment; assists in making plans and establishing policies and procedures for maintenance units; plans facilities and workflow; assigns duties; instructs in maintenance work techniques; evaluates performance of lower grade personnel; interprets company policy and standard operating procedures; assists in accomplishing unit training. NOTE: May have progressed to 63Z50 from Skill Level 40 of any MOS in the mechanical maintenance career management field (63).

Recommendation

In the vocational certificate category, 3 semester hours in personnel supervision, 3 in records administration, and 3 in leadership, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in records administration, 3 in leadership, and 3 for field experience in management, and additional credit on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management, and additional credit on the basis of institutional evaluation, for a minimum total of 9 semester hours (12/75).

MOS-64C-001

Motor Transport Operator

64C20
64C30
64C40
64C50

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 652 (Motor Transport).

Description

Summary: Operates wheel vehicles to transport personnel and cargo. *Skill Level 20:* Operates single-unit wheel vehicles with a capacity of five tons or less in all conditions of light, weather, and terrain; knows safety rules and practices; insures proper loading of vehicle; performs simple vehicular maintenance; keeps records of operation and performance; may serve as chauffeur or dispatcher. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates vehicles with a capacity of over five tons such as tractor-trailers and tank trucks. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises motor pool activities; schedules, routes, and controls movements of motor transport equipment. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates motor transport operations; assists in planning, coordinating, and supervising all supporting activities; prepares studies, routine and special reports, and records on motor transport operations; supervises personnel and technical operations.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in motor vehicle operation (single-unit truck) (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in motor vehicle operation (tractor-trailer) (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in motor vehicle operation (all road vehicles). In the lower-division baccalaureate/associate degree category, 6 semester hours in motor transportation (management) and 3 in motor maintenance (management) (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 9 semester hours in motor vehicle operation (all road vehicles). In the lower-division baccalaureate/associate degree category, 9 semester hours in motor transportation (management), 6 in motor maintenance (management), and 6 for field experience in education (driver training), for a total of 21 semester hours (2/75).

MOS-64C-002

Motor Transport Operator

64C10
64C20
64C30
64C40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Summary: Operates wheel vehicles to transport personnel and cargo. *Skill Level 10:* Operates single-unit wheel vehicles with a capacity of five tons or less in all conditions of light, weather, and terrain; knows safety rules and practices; insures proper loading of vehicle; performs simple vehicular maintenance; keeps records of operation and performance; may serve as chauffeur or dispatcher; depending on the type of unit to which assigned, may also perform the same duties for tractors, semitrailers, tank transporters, and other vehicles with a capacity of more than five tons. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small motor transport activity; participates in convoy operations and organization, including planning, the establishment of control measures, and the observance of civil laws and pertinent military regulations; reviews and prepares operations reports; determines the number of vehicles required for a given operation; schedules route and controls movements of motor transport equipment; may perform or direct driver testing functions. *Skill Level 40:* Performs the duties required for Skill Level 30 in the supervision of a large motor transport activity.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in motor vehicle operation (single-unit truck) and, *if the duty assignment was heavy vehicle driver (tractor-trailer),* 3 additional semester hours in motor vehicle operation (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in motor vehicle operation (single-unit truck) and, *if the duty assignment was heavy vehicle driver (tractor-trailer),* 4 additional semester hours in motor vehicle operation (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in motor vehicle operation (single-unit truck) and, *if the duty assignment was heavy vehicle driver (tractor-trailer),* 4 additional semester hours in motor vehicle operation. In the lower-division baccalaureate/associate degree category, 6 semester hours in motor transportation management and 3 in motor maintenance management, for a minimum total of 9 semester hours, and *if the duty assignment was driver test sergeant,* 3 semester hours for an internship in education (driver training), for a maximum total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in motor vehicle operation (all road vehicles). In the lower-division baccalaureate/associate degree category, 6 semester hours in motor transportation management, 3 in motor maintenance management, 3 in personnel supervision, 3 in human relations, and 3 for field experience in management, for a minimum total of 18 semester hours, and *if the duty assignment was driver test sergeant,* 3 semester hours for an internship in education (driver training), for a maximum total of 21 semester hours (5/76).

MOS-64Z-001

Transportation Senior Sergeant

64Z50

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Supervises operation and control of movement of personnel and cargo by air, rail, motor transport, and water; prepares tactical plans and training material; evaluates transportation operations; assists in planning, coordinating, and supervising all supporting activities; prepares studies, routine and special reports, and records on transportation operations; supervises personnel and technical operations. NOTE: The job description for 64Z50 reflects recent changes and indicates proficiency in MOS 71N40 (Traffic Management Coordinator) 64C40 (Motor Transport Operator), and 57H40 (Terminal Operations Coordinator). However, personnel currently (May 1976) holding MOS 64Z50 may not possess expertise in all these MOS's. With the additional experience and training that is planned, personnel should be fully qualified in the near future.

Recommendation

In the vocational certificate category, 9 semester hours in transportation operations. In the lower-division baccalaureate/associate degree category, 9 semester hours in transportation operations, 3 in records administration, and 3 in report writing, for a total of 15 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 for field experience in education, for a total of 12 semester hours (5/76).

MOS-65B-001

Locomotive Repairer
(Locomotive Repairman)

65B10
65B20
65B30
65B40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises or enforces maintenance on nonelectric sections of locomotives. *Skill Level 10:* Inspects locomotives to diagnose malfunctions; dismantles, inspects, overhauls, and repairs broken, worn, or malfunctioning parts; accompanies locomotive operator on test runs and observes functions of locomotives; cleans and lubricates components as required; performs technical inspections on locomotives and auxiliary equipment to insure proper maintenance has been performed; interprets technical drawings and sketches. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs initial and final inspections on locomotives scheduled for maintenance; supervises and instructs repairmen in methods and techniques of repairs; enforces safety practices; prepares technical reports on locomotives and estimates personnel, supplies, parts, and equipment necessary to restore locomotives, tanks, and tank cars to efficient operating condition; plans, organizes, and coordinates work activity of subordinates engaged in maintaining, inspecting, and repairing locomotives and auxiliary equipment. *Skill Level 40:* Able to perform duties of 65B30 or 65F30 (Locomotive Electrician); supervises or controls repairs of mechanical and electrical portions of locomotives.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in locomotive maintenance (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in locomotive maintenance (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in management and supervision of locomotive maintenance (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in management and supervision of locomotive maintenance, 3 in personnel supervision, and 3 in industrial management, for a total of 15 semester hours (5/76).

MOS-65D-001

Railway Car Repairer
(Railway Car Repairman)

65D10
65D20
65D30
65D40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises or performs maintenance on railway passenger, freight, and hospital cars. *Skill Level 10:* Dismantles and reassembles major components and auxiliary equipment; examines wheels, axles, journals, journal bearings, and draft gear for structural and safety defects; inspects cars for defects which interfere with proper loading and makes necessary repairs; repairs handbrake mechanisms, gear ratchets, linkage, center sills, and body bolsters; straightens bent sections of bodies; paints and stencils railway cars; performs technical inspection of railway cars to insure proper maintenance; interprets technical blueprints and sketches; assists in salvage and rehabilitation of cars. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; inspects railway cars prior and subsequent to maintenance. *Skill Level 30:* Able to perform the duties required for 65D20 or 65E20 (Airbrake Repairman); plans, organizes, coordinates and supervises work activity of a railway car section team; instructs repairmen in proper maintenance techniques and safety procedures; calculates personnel and material requirements for specific repair work; maintains records and prepares detailed technical reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large repair facility (normally, a minimum of 39 lower skill level personnel) involved in repairing railway cars and airbrake systems of locomotives and cars.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in practices and procedures of railroad car repair (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 1 in technical writing, for a total of 7 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in technical writing, for a total of 10 semester hours (5/76).

MOS-65E-001

Airbrake Repairer
(Airbrake Repairman)

65E10
65E20

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Inspects, services, and repairs airbrake systems of locomotives and cars. *Skill Level 10:* Inspects airbrake components and system for defects; dismantles, cleans, and lubricates components; removes and replaces defective parts; tests and adjusts components for maximum efficiency of airbrake system; makes appropriate entries in parts and log books; prepares written reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower skill level personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in inspecting, servicing, and repairing airbrake systems (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in inspecting, servicing, and repairing airbrake systems (5/76).

MOS-65F-001

Locomotive Electrician

65F10
65F20
65F30

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises or performs repairs on electrical portions of diesel-electric systems of diesel electric locomotives. *Skill Level 10:* Inspects, dismounts, dismantles, cleans, repairs, and replaces defective components of electrical systems of diesel-electric locomotives, including generators, traction motors, auxiliary motors, reversers, contactors, relays, and regulators; load-tests repaired electrical components; restores commutator surfaces, rebands armatures, and repairs armature bearings; calibrates electric measuring instruments; reads schematic wiring diagrams. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-sized activity involved in repairing electrical portions of electrical systems of diesel-electric locomotives; interprets complex wiring diagrams; prepares shop layouts; develops plans for utilization of personnel, materials, and equipment; conducts on-the-job training; requisitions tools, parts, and supplies.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in repair of electrical systems (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in repair of electrical systems (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in repair of electrical systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in shop management, and 3 in human relations, for a total of 9 semester hours (5/76).

MOS-65G-001

RAILWAY SECTION REPAIRER
(RAILWAY SECTION REPAIRMAN)

65G10
65G20
65G30
65G40

Exhibit Dates: 3/76-Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Performs and/or supervises maintenance, repair and clean-up of railway tracks, roadbeds, switches, and other railway facilities. *Skill Level 10:* Performs inspection, repair, clean-up, and maintenance of railway right-of-way and adjoining structures including switches, signals, degree of elevation, track curvature, and tie spacing; controls the issuing of repair and maintenance equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; determines need for repair and construction equipment and arranges for movement to job site; conducts on-the-job training in minor repairs, emphasizing safety to both trained and work repair crews; supervises limited size maintenance, repair, and clean-up crews. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-sized crews (normally 29-38 subordinate personnel or 2 section gangs); adjusts work assignments to best reflect capabilities of subordinate personnel; prepares reports relating to the maintenance, repair, and clean-up of railway right-of-way facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the maintenance, repair, and clean-up activities of a large-scale railway facility, normally consisting of more than 39 subordinate personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in railroad operations (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in railroad operations (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 7 semester hours in railroad operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 7 semester hours in railroad operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 6 for field experience in management, for a total of 12 semester hours (5/76).

MOS-65H-001

LOCOMOTIVE OPERATOR

65H10
65H20
65H30
65H40

Exhibit Dates: 3/76-Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Operates steam, electric, and diesel-electric locomotives and related equipment. *Skill Level 10:* Operates steam, electric, and diesel-electric locomotives and related equipment; fires and sustains steam pressure by either hand or stoker firing of coal-burning locomotives; and assists in performing the duties required for Skill Level 20. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interprets specific operating instructions; efficiently operates locomotives and trains, observing appropriate gauges and meters; lubricates moving parts of locomotive; interprets and executes operating instructions; inspects equipment for proper operating condition; interprets train orders; compiles performance and delay reports for each trip; submits locomotive inspection reports, noting needed corrective action for defects. *Skill Level 30:* Able to perform the duties required for Skill Level 20; reviews operation and inspection reports; investigates schedule delays, accidents, and unusual operating incidents and recommends corrective action; assigns specific duties to locomotive operators and other crewmen, and monitors performance of these personnel; provides on-the-job training; enforces safety procedures; coordinates maintenance of locomotives; prepares technical, personnel, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of steam, electric, and diesel-electric locomotives and related equipment.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in steam, electric, and diesel-electric mechanics, 3 in operation and maintenance of locomotive engines, and 3 in railway safety, for a total of 9 semester hours (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in operation and maintenance of locomotive engines, 3 in steam, electric, and diesel mechanics, and 3 in railway safety, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 in report writing, and 1 in safety, for a total of 10 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, 3 in report writing, and 1 in safety, for a total of 13 semester hours (5/76).

MOS-65J-001

TRAINMAN

65J10
65J20
65J40

Exhibit Dates: 10/73-2/76.

Career Management Field: 65 (Transportation), *subfield* 654 (Railway).

Description

Summary: Serves as yardmaster, conductor, or brakeman in the make-up and movement of railway cars and trains. *Skill Level 10:* Assists in disassembly, cleaning, and reassembly of major components of locomotives and cars; moves tools and supplies to and from worksites; positions and braces heavy material or parts for repairmen; lubricates locomotives and cars; services storage batteries. *Skill Level 20:* Performs as brakeman in car coupling and uncoupling operations; lubricates cars and insures that they are properly loaded, braced, and lashed; prepares reports, lists, and records of yard and road railway operations. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises brakeman operations and serves as conductor and yardmaster in the movement and makeup of railway cars and trains; receives and prepares required train orders, forms, and records, conducts on-the-job training of subordinates.

Recommendation, Skill Level 10

Credit on the basis of institutional evaluation. NOTE: Skill Level 10 was not evaluated during the time period of this exhibit, because it was added to MOS 65J in 3/75, one month after Skill Levels 20 and 40 were evaluated.

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in railroad operation (brakeman) (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in railroad operation (conductor and yardmaster). In the lower-division baccalaureate/associate degree category, 6 semester hours in management (2/75).

MOS-65J-002

TRAIN CREW MEMBER
(TRAINMAN)

65J10
65J20
65J30
65J40

Exhibit Dates: 3/76-Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Serves as yardmaster, conductor, or brakeman in the make-up and movement of railway cars and trains. *Skill Level 10:* Performs as a brakeman; receives orders for switching and performs car coupling and uncoupling operations; applies safety rules; gives and interprets railway signals for train control and operation; places placarded cars in trains and insures that cars are properly loaded and lashed for safe handling; prepares and interprets train orders; prepares reports and forms for yard and railway operations; inspects rolling stock to determine operating condition. *Skill Level*

20: Able to perform the duties required for Skill Level 10; serves as a conductor; supervises the operation of a railroad train and coordinates train movements; reviews and interprets train orders and time tables; instructs and supervises enginemen and brakemen in connecting and disconnecting trains and cars and switching cars to sidings or spurs. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as an assistant yardmaster; supervises and trains personnel in railway yard operation, including the handling, classification, and switching of trains and cars; maintains record of daily movement of railway cars; assures adherence to railway safety procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports covering railway yard activities. *Skill Level 40:* Supervises railway yard operations by performing the duties required for Skill Level 30 at a higher level, normally supervising two Skill Level 30 yardmasters.

Recommendation, Skill Level 10

In the vocational certificate category, 7 semester hours in the make-up and movement of railway cars and trains (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 13 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in human relations (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 6 for field experience in management, for a total of 12 semester hours (5/76).

MOS-65K-001

RAILWAY MOVEMENT COORDINATOR

65K10
65K20
65K30
65K40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises train dispatching or operates railway stations, railway signals and switches, and assists in control and coordination of train movements. *Skill Level 10:* Accounts for car and train movements by compiling records reflecting locations of all rolling stock; keeps records of arriving and departing trains; computes operational and statistical reports on traffic volume, demurrage, expediting, and train movements; requisitions cars, supervises loading, compiles and checks bills of lading (waybills) and seals cars; receives requisitions for empty cars and directs movement to loading areas; establishes liaison with other operating personnel and civilian carrier operating personnel to insure safe and prompt handling of freight. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises receipt and transmission of messages relating to train movements; reviews transit time; coordinates and arranges for train crews; establishes close liaison with representatives of civilian and military railroads; supervises on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides staff supervision to lower-grade personnel in railway operating activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management and 1 in personnel supervision (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management, 3 in personnel supervision, and 3 in human relations, for a total of 12 semester hours (5/76).

MOS-65Z-001

RAILWAY SENIOR SERGEANT

65Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Supervises and coordinates maintenance-of-way and maintenance of equipment and railway operations, including the overall supervision of 65B40 (Locomotive Repairman), 65D40 (Railway Car Repairman), 65G40 (Railway Section Repairman), 65H40 (Locomotive Operator), 65J40 (Trainman), and 65K40 (Railway Movement Coordinator) personnel; advises superiors on all matters relating to operations, maintenance, and repair; monitors and controls railway passenger and freight traffic; prepares operational reports, training material, and programs.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in records administration, 3 in personnel management, 3 in human relations, 3 for field experience in management, 3 in maintenance management, 3 in introduction to management, and 6 in transportation management, for a total of 24 semester hours (5/76).

MOS-67B-001

O-1/U-6 AIRPLANE REPAIRMAN

67B20
67B40

Exhibit Dates: 9/75–2/77. (Effective 3/77, MOS 67B was discontinued and its functions were incorporated into MOS 67G, Airplane Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance, excluding any repair of system components, on 0-1 and U-6 airplanes; supervises or serves as crewman in target aircraft units. *Skill Level 20:* Readies, assists in launching, and conducts scheduled and special inspections of target aircraft; diagnoses operational defects, services systems, and adjusts or replaces parts or assemblies as authorized by maintenance doctrine and maintenance allocation charts; tightens, adjusts, removes, and replaces components, assemblies and subassemblies with common and special tools and precision measuring instruments; removes and replaces defective engine carburetors, fuselage components, seat belts, shoulder harnesses, seats, upholstery, propeller accessories, hydraulic system components, gages, and instruments; adjusts and replaces electrical system components; installs spark plugs, engines, cowlings, horizontal and vertical stabilizers, battery, wing, parachute, and parachute release mechanism on target aircraft for launching; maintains target aircraft engines, airframes, and wings; performs preflight checkout of target aircraft. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel involved in the launch, remote control, and recovery of target aircraft; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; keeps records on aircraft maintenance operations; estimates man-hour and parts requirements to repair airplanes and associated equipment; performs duties of airfield service supervisor; conducts on-the-job training; prepares, reviews, and consolidates technical and administrative reports pertaining to target aircraft equipment maintenance.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology or aviation maintenance management (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic airframe maintenance, 3 in shop procedures and practices, and 1 in technical writing, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance management or airframe systems management, 3 in shop procedures and practices, 3 in personnel supervision, 1 in technical writing, and 1 in records administration, for a total of 14 semester hours. In the upper-division baccalaureate category, *if the duty assignment was maintenance supervisor section chief, section sergeant, or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS-67C-001

U-1A AIRPLANE REPAIRMAN

67C20

67C40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 67C was discontinued and its functions were incorporated into MOS 67G, Airplane Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance, excluding any repair of system components, on U-1A airplanes. *Skill Level 20:* Performs maintenance on airplanes, including inspecting, checking, troubleshooting, and repairing malfunctions in the airframe, powerplant, and their associated systems; uses common and special tools and precision measuring instruments; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints; loads, lashes, and unloads cargo. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises organizational, direct, and general support maintenance activities and applies production control, quality control, and other maintenance management principles and procedures to shop operations; evaluates damage and estimates man-hour and parts requirements to repair airplanes and associated equipment; instructs lower skill level personnel in safety principles and procedures; prepares forms, records, and reports on aircraft maintenance operations.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology or aviation maintenance management (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic airframe maintenance and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance management or airframe systems management, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 13 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor, section chief or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS-67F-001

AIRPLANE TECHNICAL INSPECTOR

67F20

67F40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 67F was discontinued and its functions were incorporated into MOS 67W, Aircraft Quality Control Supervisor.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs technical inspections on fixed-wing airplanes. *Skill Level 20:* Determines maintenance required and ensures that maintenance has been properly performed in accordance with prescribed standards; conducts operational checks and troubleshoots aircraft systems; advises repairmen on proper maintenance standards and procedures; maintains records and technical library; interprets technical publications and solves problems arising in aircraft maintenance and modification; applies quality control techniques. NOTE: Must be able to perform the duties of Skill Level 20 of any fixed-wing aircraft maintenance MOS. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is the principal non-commissioned officer in an aviation maintenance unit; applies quality control techniques and procedures to maintenance operations; plans, directs, schedules, and supervises aircraft inspection activities; instructs and advises personnel in inspection techniques and quality control procedures; evaluates damaged aircraft and estimates man-hour, personnel, and equipment requirements to repair fixed-wing aircraft.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance and 6 in technical electives. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 6 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 20 semester hours in aircraft maintenance, 6 in technical electives, and 5 in quality control, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 6 in technical electives, 5 in quality control, and 3 in personnel management, for a total of 34 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management, 6 in technical electives, and 3 in personnel management, for a total of 15 semester hours (11/75).

MOS-67G-001

U-8/U-21 AIRPLANE REPAIRMAN

67G20

67G40

Exhibit Dates: 10/73-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs line and shop maintenance, excluding any repair of system components, on U-8 and U-21 airplanes. *Skill Level 20:* Performs maintenance on aircraft systems, ground support equipment, landing gear, power plant (reciprocating and turboprop) and related systems, hydraulic and related systems, propellers, flight controls, instruments, electrical systems, and accessories. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to line and shop operations; prepares records and reports on aircraft maintenance operations; utilizes and enforces safety principles and procedures.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology or in aviation maintenance management (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 4 semester hours in aviation maintenance management or in airframe systems management (2/75).

MOS-67G-002

AIRPLANE REPAIRER

67G10

67G20

67G30

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises line and shop maintenance of light aircraft, excluding any repair of system components or conducts maintenance inspections. *Skill Level 10:* Performs maintenance and minor repair on aircraft systems, ground support equipment, accessories and appliances of fixed-wing light aircraft; prepares aircraft for extensive inspections by removing inspection plates, panels, floorboards, and auxiliary equipment; removes and replaces subsystem components including starters, generators, inverters, voltage regulators, lights, batteries, pumps, reservoirs, valves, hydraulic cylinders, and hoses; assists in removal and installation of subsystem assemblies such as engines, propellers, and main wheels; uses aircraft maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and serves as a crew chief on light fixed-wing aircraft; provides technical guidance to Skill Level 10 personnel; removes and replaces major components; performs maintenance operational checks; diagnoses and troubleshoots all systems on light fixed-wing aircraft; uses and interprets technical manuals, directives, work standards, and operational policies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may serve as a technical inspector on light fixed-wing aircraft; plans work flow; applies quality control principles and other maintenance management principles to shop and flight line operations; supervises and evaluates work performance in aircraft maintenance, supply, and safety techniques; assists in performing aircraft weight and balance checks.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in general aircraft maintenance and repair. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in general aircraft maintenance and repair. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology and 2 in aviation maintenance management. In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in general aircraft maintenance and repair. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology, 2 in aviation maintenance management, 3 in human relations (or a management elective), and 2 in quality control, for a total of 11 semester hours; *if the duty position was maintenance supervisor section chief,* 3 semester hours in personnel supervision, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management, 3 in personnel management, and 3 for field experience in management, for a total of 9 semester hours; *or* 9 semester hours in management electives (5/78).

MOS-67H-001

OV-1 Airplane Repairman

67H20

67H40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 67H was discontinued and its functions were incorporated into MOS 67G, Airplane Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance, excluding any teardown repair of system components, on OV-1 airplanes. *Skill Level 20:* Performs maintenance on airplanes, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; uses hand and power tools, special tools, precision measuring instruments, and diagnostic test equipment; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans workflow; evaluates damage and estimates man-hour and parts requirements to repair OV-1 airplanes and associated equipment; applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; provides instruction in safety principles, procedures, and techniques.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic airframe maintenance or basic airplane maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance technology or aviation maintenance management (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic airframe maintenance or basic airplane maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance management or airframe systems management, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 13 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section sergeant or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS-67N-001

UH-1 Helicopter Repairman

67N20

67N40

Exhibit Dates: 10/73-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance on UH-1 helicopters. *Skill Level 20:* Inspects, replaces, and repairs parts of the UH-1 helicopter; conducts scheduled and special inspections; troubleshoots and diagnoses all systems to detect malfunctions and isolate defective components; uses common and special tools and precision measuring instruments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; applies maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; supervises a minimum of six subordinates; employs shop safety principles and procedures; evaluates damage and estimates repair requirements; does more complicated repair work; performs duties of airfield service supervisor.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 1 in records administration, and 2 in personnel supervision, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in management principles or personnel administration (2/75).

MOS-67N-002

Utility Helicopter Repairer

67N10

67N20

67N30

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on utility helicopters, excluding repairs of systems components, or conducts maintenance inspections. *Skill Level 10:* Assists in the removal and installation of subsystem assemblies such as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopters for extensive inspections and maintenance; assists in maintenance operational checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records; may perform duties of utility helicopter crew chief. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as utility helicopter crew chief; provides technical guidance to Skill Level 10 personnel; maintains ground support equipment; prepares maintenance forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises all maintenance on utility helicopters; plans work flow; applies production control, quality control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel, and conducts on-the-job training programs in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks and test flights; assists in performing weight and balance checks; monitors maintenance operational checks and test flights; certifies airworthiness of the aircraft.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic helicopter maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance, and 2 in aviation maintenance management. In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in basic helicopter maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance, 2 in aviation maintenance management, 3 in human relations (or a management elective), and 2 in quality control, for a total of 13 semester hours; *if the duty position was maintenance supervisor section chief,* 3 semester hours in personnel supervision, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management, 3 in personnel management, and 3 for field experience in management, for a total of 9 semester hours; *or* 9 semester hours in management electives (5/78).

MOS-67T-001

Tactical Transport Helicopter Repairman

67T10

67T20

67T30

Exhibit Dates: 9/78-Present. Pending evaluation.

MOS-67U-001

CH-47 Helicopter Repairman

67U20

67U40

Exhibit Dates: 10/73-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises helicopter maintenance, excluding any teardown repair of system components, on CH-47 helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; uses hand and power tools, special tools, precision measuring instruments, and diagnostic test equipment; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities, applies production control, quality control, and other maintenance management principles and procedures to shop operations; evaluates damage and estimates man-hour and parts requirements to repair CH-47 helicopters and associated equipment; prepares forms, records, and reports on aircraft maintenance operations.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section chief or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75)

MOS-67U-002

Medium Helicopter Repairman

67U10
67U20
67U30

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance on medium helicopters, excluding the repairs of systems components, or conducts maintenance inspections. *Skill Level 10:* Performs medium helicopter maintenance; assists in the removal and installation of subsystem assemblies such as engines, transmissions, gearboxes, rotor hubs, and rotor blades; prepares helicopters for major inspections; assists in maintenance operational checks; uses maintenance forms and records; may perform duties of medium helicopter crew chief. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; performs maintenance operational checks; performs all scheduled and special aircraft inspection maintenance tasks; prepares maintenance forms and records; maintains ground support equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs maintenance on cargo (heavy) helicopters; may serve as aircraft technical inspector; plans work flow; applies quality control, production control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel, and conducts on-the-job training programs in helicopter maintenance, supply, and safety techniques; assists in performing weight and balance checks; monitors maintenance operational checks and test flights; certifies airworthiness of the aircraft.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in basic helicopter maintenance. In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in basic helicopter maintenance. In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance, 2 in aviation maintenance management, 3 in human relations (or a management elective), and 2 in quality control, for a total of 15 semester hours; *if the duty position was maintenance supervisor section chief,* 3 semester hours in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management, 3 in personnel management, and 3 for field experience in management, for a total of 9 semester hours; *or* 9 semester hours in management electives (5/78).

MOS-67V-001

OH-6/OH-58 Helicopter Repairman

67V20
67V40

Exhibit Dates: 3/74-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance, excluding any teardown repair of system components. on OH-6/OH-58 helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints; loads, lashes, and unloads cargo. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities and applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was maintenance supervisor platoon sergeant,* 6 semester hours in aviation management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS-67V-002

Observation/Scout Helicopter
Repairer

67V10
67V20
67V30

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance on observation/scout helicopters, excluding the repair of systems components, or conducts maintenance inspections. *Skill Level 10:* Performs maintenance on observation/scout helicopters; assists in the removal and installation of subsystem assemblies such as engines, transmissions, gearboxes, rotor hubs and rotor blades; prepares helicopters for major inspections; assists in maintenance operational checks; uses maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; performs maintenance operational inspection checks; troubleshoots rotor system malfunctions; performs all scheduled and special aircraft inspection maintenance tasks; prepares maintenance forms and records; maintains ground support equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may serve as aircraft technical inspector; applies quality control, production control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel and conducts on-the-job training programs in helicopter maintenance, supply, and safety techniques; assists in performing weight and balance checks; monitors maintenance operational checks and test flights; certifies airworthiness of aircraft.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in basic helicopter maintenance. In the lower division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in basic helicopter maintenance. In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance, 2 in aviation maintenance management, 3 in human relations (or a management elective), and 2 in quality control, for a total of 15 semester hours; *if the duty position was maintenance supervisor section chief,* 3 semester hours in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management, 3 in personnel management, and 3 for field experience in management; for a total of 9 semester hours; *or* 9 semester hours in management electives (5/78).

MOS—67W-001

Helicopter Technical Inspector

67W20

67W40

Exhibit Dates: 10/73-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs technical inspections on rotary-wing aircraft and life support equipment. *Skill Level 20:* Performs technical inspections on rotary-wing aircraft to determine maintenance requirements and insure maintenance has been properly performed in accordance with prescribed standards; conducts operational checks and troubleshoots helicopter systems; advises repairmen on proper maintenance standards and procedures; maintains records and technical library; interprets technical publications and resolves problems arising in helicopter maintenance and modification; applies quality control techniques. NOTE: Required to have attained Skill Level 20 in at least one rotary-wing aircraft maintenance MOS (67N, U, V, X, or Y). *Skill Level 40:* Able to perform the duties required for Skill Level 20; acts as the principal non-commissioned officer in an aviation maintenance battalion, group, or higher headquarters for helicopter inspection; supervises maintenance personnel; plans, directs, and supervises aircraft inspection activities; instructs and advises personnel in inspection techniques and quality control procedures; evaluates damaged aircraft and estimates man-hour, personnel, and equipment requirements to repair helicopters.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance and 6 in technical electives. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 6 in technical electives (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 20 semester hours in aircraft maintenance, 6 in technical electives, and 5 in quality control, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 6 in technical electives, 5 in quality control, and 3 in personnel management, for a total of 34 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management, 6 in technical electives, and 3 in personnel management, for a total of 15 semester hours (2/75).

MOS-67W-002

Aircraft Quality Control Supervisor

67W30

67W40

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs technical inspections on rotary-wing aircraft and life support equipment. *Skill Level 30:* Performs technical inspections on rotary-wing aircraft to determine maintenance requirements and insure maintenance has been properly performed in accordance with prescribed standards; conducts operational checks and troubleshoots helicopter systems; advises repairers on proper maintenance standards and procedures; maintains records and technical libraries, interprets technical publications and resolves problems arising in helicopter maintenance and modification; applies quality control techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as principal non-commissioned officer in an aviation maintenance unit; supervises maintenance personnel; plans, directs, and supervises aircraft inspection activities; instructs and advises personnel in inspection techniques and quality control procedures; evaluates damaged aircraft and estimates man-hour, personnel, and equipment requirements to repair helicopters.

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance and 6 for technical electives. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 6 for technical electives (5/78).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance and 6 for technical electives. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management, 6 for technical electives, and 3 in production management, for a total of 15 semester hours (5/78).

MOS-67X-001

CH-54 Helicopter Repairman

67X20

67X40

Exhibit Dates: 10/73-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises helicopter maintenance, excluding any teardown repair of system components, on CH-54 helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints; uses hand and power tools, precision measuring instruments, and diagnostic test equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities; applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; evaluates damage and estimates manhour and parts requirements to repair CH-54 helicopters and associated equipment; instructs in safety principles, procedures, and techniques.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, 3 in personnel supervision and 1 in records administration, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section chief or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS-67X-002

Heavy Lift Helicopter Repairer

67X10

67X20

67X30

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises helicopter maintenance, excluding repair of system components. *Skill Level 10:* Performs maintenance and repair, including preparation for inspections and heavy-lift helicopters; removes and replaces subsystem components such as wheels, tires, starters, generators, inverters, voltage regulators, valves, hydraulic cylinders, and hoses; assists in maintenance operational checks; uses maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; may serve as heavy lift helicopter crew chief; provides technical guidance to Skill Level 10 personnel; removes and replaces aircraft powerplant, powertrain components, flight controls, and flight control hydraulic components; troubleshoots rotor system malfunctions; performs maintenance operational checks; performs all scheduled and special inspection maintenance tasks; maintains ground support equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans work flow; applies production control, quality control and other maintenance management principles to shop and flight line operations; prepares forms and records; performs technical inspections; certifies airworthiness of aircraft.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (heavy) (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in basic helicopter maintenance (heavy). In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (heavy) and 2 in aviation maintenance management. In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in basic helicopter maintenance (heavy). In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (heavy), 2 in quality control, 2 in aviation maintenance management, and 3 in human relations, for a total of 15 semester hours; *if the duty position was maintenance supervisor section chief,* 3 semester hours in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management, 3 in personnel management, and 3 for field experience in management, for a total of 9 semester hours; *or* 9 semester hours in management electives (5/78).

MOS-67Y-001

AH-1G Helicopter Repairman

67Y20
67Y40

Exhibit Dates: 10/73-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance, excluding any teardown repair of system components, on AH-1G helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and associated systems; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints; performs duties of crew chief. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities and applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; evaluates damage and estimates manhour and parts requirements to repair AH-1G helicopters and associated equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, 2 in personnel supervision, and 1 in records administration, for a total of 15 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section chief or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS-67Y-002

Attack Helicopter Repairer

67Y10
67Y20
67Y30

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises removal and installation of subsystem assemblies such as engines, transmissions, gearboxes, rotor hubs and rotor blades on attack helicopters or conducts techncial inspections. *Skill Level 10:* Assists in the performance of maintenance on helicopters, including inspecting, checking troubleshooting and repairing malfunctions of components or units in the airframe, powerplant, and associated systems; prepares helicopters for extensive inspection and maintenance; uses and performs user maintenance on common and special tools and ground support equipment; prepares and uses maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; troubleshoots rotor system malfunctions; prepares maintenance forms and records; maintains ground support equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises maintenance; may perform as aircraft technical inspector; applies production control, quality control, and other maintenance management principles to shop and flight line operations; prepares forms, records and reports on helicopter maintenance and supply operations; instructs personnel in helicopter maintenance, supply and safety techniques; performs technical inspections of aircraft before, during, and after repair or modification; monitors maintenance operational checks and test flights; certifies airworthiness of aircraft; assists in performing aircraft weight and balance.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic helicopter maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in basic helicopter maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance, 2 in aviation maintenance management, 3 in human relations (or for a management elective), and 2 in quality control, for a total of 13 semester hours; *if the duty assignment was maintenance supervisor section chief,* 3 semester hours in personnel supervision, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management, 3 in personnel management, and 3 for field experience in management, for a total of 9 semester hours; *or* 9 semester hours in management electives (5/78).

MOS-67Z-001

Aircraft Maintenance Senior Sergeant

67Z50

Exhibit Dates: 10/73-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Supervises fixed-wing aircraft and/or helicopter maintenance on any operational level with varying fleet sizes; plans, coordinates, and controls maintenance activities on a supervisory or management level in addition to participating in technical problem solving; when assigned to a unit in which no technical participation is involved, plans, coordinates, and controls personnel activities of varying organizational groups. NOTE: Must be able to perform the duties of Skill Level 40 of any MOS in the aviation maintenance career management field (67).

Recommendation

In the vocational certificate category, 20 semester hours in airframe maintenance (helicopter and fixed-wing), 20 in powerplant maintenance (helicopter and fixed-wing), and 20 in systems maintenance (helicopter and fixed-wing), for a total of 60 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in airframe maintenance (helicopter and fixed-wing), 15 in powerplant maintenance (helicopter and fixed-wing), 15 in systems maintenance (helicopter and fixed-wing), 9 in technical electives, 3 in industrial organization, and 3 in personnel supervision, for a total of 60 semester hours. In the upper-division baccalaureate category, 3 semester hours in airframe maintenance (helicopter and fixed-wing), 3 in powerplant maintenance (helicopter and fixed-wing), 3 in systems maintenance (helicopter and fixed-wing), 3 in technical electives, 3 in production management, and 9 in aviation maintenance management or 3 in introduction to management and 6 for field experience in management, for a total of 24 semester hours (11/75).

MOS–67Z–002

AIRCRAFT MAINTENANCE SENIOR SERGEANT

67Z40

67Z50

Exhibit Dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises maintenance on fixed-wing aircraft and helicopters. *Skill Level 40:* Plans, coordinates, and controls maintenance activities; participates in technical problem-solving; supervises the preparation of work orders, requisitions, reports, and correspondence; applies production control and other maintenance management principles and procedures; advises in diagnosing complex malfunctions; assists in determining maintenance requirements; enforces shop safety principles and procedures. NOTE: May have progressed to 67Z40 from 67G30 (Airplane Repairer), 67N30 (Utility Helicopter Repairer), 67U30 (Medium Helicopter Repairer), 67V30 (Observation/Scout Helicopter Repairer), 67X30 (Heavy Lift Helicopter Repairer), or 67Y (Attack Helicopter Repairer). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer of an aircraft maintenance unit; plans and lays out aircraft maintenance areas and component repair shops and facilities; insures that proper maintenance techniques have been employed by use of quality assurance inspections; supervises and participates in preparation of studies, evaluations, special reports, and records pertaining to aircraft maintenance and components repair operations, training, and related activities; applies production, quality control, and other maintenance management principles and procedures; processes work orders and allocates maintenance responsibilities. NOTE: May have progressed to 67Z50 from 67Z40 or 68K40 (Aircraft Component Repair Supervisor).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in maintenance supervision. In the lower-division baccalaureate/associate degree category, 3 semester hours for technical electives, 3 in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in shop management, and 3 in introduction to management, for a total of 9 semester hours (5/78).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in shop management, and 3 in introduction to management, for a total of 12 semester hours (5/78).

MOS–68B–001

AIRCRAFT TURBINE ENGINE REPAIRMAN

68B20

68B30

68B40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Maintains aircraft turbine (jet) engines and components. *Skill Level 20:* Diagnoses and corrects single turbine engine malfunctions; disassembles engines and components, examines parts and components for wear or damage, determines the type and extent of repairs required, and reassembles engines and components; adjusts engines to operate at peak efficiency; uses and interprets technical publications; uses diagnostic equipment; preserves and stores turbine engine systems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; reinstalls and rigs turbine engines on multiple turbine engine aircraft; performs modifications on multiple turbine engines. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans the utilization and work flow of resources and facilities; applies production control, quality control, and other maintenance management principles and procedures; prepares records and technical reports; instructs personnel in engine maintenance and safety procedures; supervises the final adjustment of aircraft turbine engines.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft engine (turbine) maintenance and 6 in technical electives. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 16 semester hours in aircraft engine (turbine) maintenance and 6 in technical electives. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 16 semester hours in aircraft engine (turbine) maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 25 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

MOS–68B–002

AIRCRAFT POWERPLANT REPAIRER

68B10

68B20

68B30

Exhibit dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Summary: Performs or supervises maintenance on turbine engines and their components. *Skill Level 10:* Performs maintenance on turbine powerplants including assisting in powerplant removal; removes, replaces, services, prepares, preserves, and cleans engine assemblies or components; performs maintenance on ground support equipment; uses and performs maintenance on common and special tools; uses certain aircraft forms and records; prepares request for turn-ins and repair parts. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; applies troubleshooting techniques to diagnose malfunctions to specific engine components; disassembles, repairs, reassembles, adjusts, and tests turbine engine systems, subsystems and components; maintains select ground support equipment; performs maintenance on diagnostic equipment; prepares forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms and records; conducts on-the-job training; supervises and evaluates work performance in powerplant maintenance; may serve as technical inspector; monitors shop and flight line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 12 semester hours in turbine engine maintenance and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in turbine engine maintenance and 3 for technical electives) (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in turbine engine maintenance and 3 for technical electives) and 3 in aviation maintenance management, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in turbine engine maintenance and 3 for technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective) for a minimum total of 27 semester hours; *if the duty assignment was aircraft powerplant repair supervisor section chief,* 3 semester hours in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management, for a total of 9 semester hours (5/78).

MOS–68D–001

AIRCRAFT POWERTRAIN REPAIRMAN

68D20

68D40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft powertrains and components. *Skill Level 20:* Diagnoses and locates malfunctions; removes, disassembles, repairs, and reinstalls powertrain components; insures proper clearances and alignment of parts utilizing shimming and precision measuring equipment; interprets technical literature, blueprints, and schematic diagrams; completes forms and maintains records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises up to 20 or more persons; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; instructs personnel in aircraft powertrain maintenance and safety techniques; supervises final alignment and adjustment of aircraft powertrain components.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in helicopter component maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in helicopter component maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in helicopter component maintenance, 9 in technical electives, 3 in introduction to management, and 3 for field experience in management, for a total of 21 semester hours (11/75).

MOS-68D-002

Aircraft Powertrain Repairer

68D10
68D20
68D30

Exhibit Dates: 3/77-Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Summary: Performs maintenance and repair, or supervises maintenance on helicopter powertrain subsystems and components. *Skill Level 10:* Performs maintenance and tests; assists with inspections on helicopter powertrain subsystems and components; removes and replaces powertrain quills, transmissions-adapting parts, and rotary-wing hub oil tanks; obtains and prepares oil samples for analysis; applies corrosion preventive procedures; cleans, preserves, and stores components; performs maintenance on select ground support equipment; uses and performs maintenance on common and special tools; uses certain aircraft forms and records; prepares request for turn-in and repair parts. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; applies troubleshooting techniques to diagnose malfunctions; performs nondestructive inspections on aircraft components; disassembles, repairs, reassembles, adjusts, and tests powertrain components, systems, and subsystems; balances main and tail rotor hub assembly and aligns main rotor and hub assembly; performs maintenance on diagnostic equipment; prepares forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may serve as technical inspector; plans work flow; applies production control, quality control and other maintenance management principles; supervises and evaluates personnel work performance; conducts on-the-job training; monitors shop and flight line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 12 semester hours in helicopter component maintenance and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in helicopter component maintenance and 3 for technical electives) (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technoloy (or 12 in helicopter component maintenance and 3 for technical electives), and 3 in aviation maintenance management, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in helicopter component maintenance and 3 for technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective), for a minimum total of 27 semester hours; *if the duty position was aircraft powertrain repair supervisor,* 3 semester hours in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68E-001

Aircraft Rotor and Propeller Repairman

68E20
68E30
68E40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 68E was discontinued and its duties were incorporated into MOS 68B, Aircraft Powerplant Repairer; MOS 68D, Aircraft Powertrain Repairer; and MOS 68G, Aircraft Structural Repairer.)

Career Management Field: 67 (Aviation Maintenance), *Subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on helicopter rotor blades, airplane propeller systems, and allied equipment. *Skill Level 20:* Performs maintenance on helicopter rotor blade assemblies and components; applies metal working and bonding techniques; balances and aligns main and tail rotor, applies hydraulic and electrical fundamentals in the repair, modification, and lubrication of propellers, rotor blades, assemblies and components; isolates malfunctions with special test equipment; utilizes non-destructive and precision test equipment; interprets technical literature, blueprints, and schematic diagrams; preserves and stores rotor blades and components; prepares forms, records, and reports; inspects and tests repaired units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs direct and general support maintenance on fixed and constant speed propeller assemblies and components. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises direct and general support maintenance on helicopter rotor blades, airplane propeller systems and allied equipment; plans workflow in terms of resources and facilities; applies production control, quality control, and other maintenance management principles and procedures to shop operations; instructs personnel in rotor and propeller systems maintenance and safety techniques; supervises final alignment/adjustment of rotor and propeller systems.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in rotary wing and propeller maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in rotary wing and propeller maintenance and 4 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in rotary wing and propeller maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in rotary wing and propeller maintenance, 9 in technical electives, 3 in introduction to management, and 3 for field experience in management, for a total of 21 semester hours (11/75).

MOS-68F-001

Aircraft Electrician

68F20
68F30
68F40

Exhibit Dates: 10/74-2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft electrical/electronic systems and aircraft crew station instruments. *Skill Level 20:* Removes, disassembles, inspects, repairs, assembles, and reinstalls electrical/electronic elements of assemblies and components; applies troubleshooting techniques and diagnoses malfunctions in solid state and transistorized systems; repairs, replaces, splices, and solders electrical/electronic components; interprets technical literature, blueprints, and wiring schematic diagrams; prepares aircraft maintenance forms, records, and reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; applies principles of electricity, electronics, gyroscopic motion, pneumatics, and hydraulics applicable to the repair of aircraft instruments; performs technical inspections to insure that completed repairs meet prescribed specifications; uses forms and records designed for quality control. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises up to 20 or more persons; plans work flow; orients and instructs personnel and conducts on-the-job training programs in aircraft electrical/electronic and instrument system maintenance, supply, and safety techniques.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft electrical system maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft electrical system maintenance and 4 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft electrical system maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in aircraft electrical system maintenance, 9 in technical electives, 3 in introduction to management, and 3 for field experience in management, for a total of 21 semester hours (11/75).

MOS-68F-002

Aircraft Electrician

68F10

68F20

68F30

Exibit Dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Summary: Supervises or performs maintenance on aircraft electrical/electronic systems and aircraft crew station instruments. *Skill Level 10:* Removes and replaces electrical/electronic elements of assemblies and components, including electrical wiring, aircraft battery systems, and instruments; applies proper soldering techniques during circuitry repair; cleans, preserves, and stores electrical/electronic components and aircraft instruments; uses and performs maintenance on common and special tools; maintains and repairs ground support equipment; uses certain aircraft forms and records; prepares request for turn-in and repair parts. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; applies troubleshooting techniques to diagnose and localize malfunctions to specific electrical/electronic components including solid-state and transistorized subsystems; disassembles, repairs, reassembles, adjusts and tests electrical/electronic elements of assemblies and components; applies principles of pneudraulics applicable to troubleshooting of interfacing electropneudraulic systems and components; repairs and replaces printed circuits; repairs nickel-cadmium batteries; applies principles of electricity/electronics, gyroscopic motion, pneumatics, and hydraulics applicable to repair of aircraft instrument subsystems; performs maintenance on diagnostic equipment; prepares forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may serve as technical inspector; plans work flow; applies production control, quality control, and other maintenance management principles; supervises and evaluates personnel work performance; conducts on-the-job training; monitors shop and flight line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 12 semester hours in aircraft electrical systems maintenance and repair and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology and 3 in aviation maintenance management. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology, 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective), for a minimum total of 27 semester hours; *if the duty position was aircraft electrician supervisor section chief,* 3 semester hours in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68G-001

Airframe Repairman

68G20

68G30

68G40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs line and shop maintenance; is proficient in repairing aircraft structures, reading blueprints and drawings, forming metals, welding, and painting. *Skill Level 20:* Makes airframe structural repairs by fabrication of new parts, by using approved fasteners, rivets, and special purpose bolts, and by welding; prepares airframe surfaces for painting. *Skill Level 30:* Able to perform the duties required for Skill Level 20; as a senior repairman, inspects airframes and components before, during, and after repair or modification to insure that prescribed specifications are met; does the more complicated repair work. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as a first-line supervisor, oversees the repair of airframe structures; completes maintenance forms and records; plans work loads and work flow; assures quality and production control; instructs personnel in airframe maintenance and in safety regulations and techniques; applies management principles and procedures to shop operations.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in aviation maintenance technology or airframe structures. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance technology or aviation maintenance management. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management or aviation maintenance engineering technology (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in aviation maintenance technology or airframe structures. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology or aviation maintenance management. In the upper-division baccalaureate category, 9 semester hours in aviation maintenance management or aviation maintenance engineering technology (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in aviation maintenance technology or airframe structures and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology or aviation maintenance management and 3 in personnel supervision. In the upper-division baccalaureate category, 9 semester hours in aviation maintenance management or aviation maintenance engineering technology and 3 in personnel administration (2/75).

MOS-68G-002

Aircraft Structural Repairer

68G10

68G20

68G30

Exhibit Dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Summary: Supervises, inspects, or performs maintenance and repair of aircraft structure. *Skill Level 10:* Makes airframe structural repairs by fabrication of new parts, by using approved fasteners, rivets, special-purpose fasteners, and fiberglass materials; prepares airframe surfaces for painting; mixes and applies primers and paints to aircraft; uses and maintains shop tools and equipment; uses field and technical manuals to make specific repairs. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; inspects airframes and components before, during, and after repair or modification to insure that specifications are met; performs welding maintenance; uses precision measuring gauges and instruments; determines shop and bench stock requirements; prepares or assists in the preparation of requests for parts, tools, and supplies; interprets blueprints; coordinates work load; applies maintenance management principles and procedures to shop operations. *Skill Level 30:* Able to perform the duties required for

Skill Level 20; supervises maintenance; may perform technical inspections on aircraft structures and control surfaces; conducts and supervises on-the-job training; assures quality and production control; applies management principles and procedures to shop operations; may supervise from 6 to 19 persons; monitors shop and flight line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in airframe structures, 3 for technical electives, and additional credit in airframe structures on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in airframe structures and 3 for technical electives), and additional credit in airframe structures or aviation maintenance technology on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in airframe structures and 3 for technical electives), and 3 in aviation maintenance management, and additional credit in airframe structures or aviation maintenance technology on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in airframe structures and 3 for technical electives, and additional credit in airframe structures on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 12 semester hours in aviation maintenance technology (or 9 in airframe structures and 3 for technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective), and additional credit in aviation maintenance technology or airframe structures on the basis of institutional evaluation, for a minimum total of 24 semester hours; *if duty position was aircraft structural repair supervisor section chief,* 3 semester hours in personnel supervision, for a total of 27 semester hours. in the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68H-001

AIRCRAFT HYDRAULICS REPAIRMAN

68H20
68H40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft hydraulic and pneumatic systems and components. *Skill Level 20:* Diagnoses and corrects hydraulic/pneumatic system and component malfunctions; examines parts and components; resurfaces valves and valve seats; hones, and polishes cylinders; replaces bushings, bearings, and sleeves on equipment; employs precision measuring instruments and gages; tests component functions with specialized liquid, gas, air, and vacuum test equipment; performs modifications; interprets technical literature and schematic diagrams; prepares aircraft maintenance forms, records, and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises up to 20 or more persons; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; instructs personnel in aircraft hydraulic/pneumatic system and components maintenance and safety techniques; supervises final alignment and adjustment of aircraft hydraulic/pneumatic systems and components onto airframe.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft hydraulic system maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft hydraulic system maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in aircraft hydraulic system maintenance, 9 in technical electives, 3 in introduction to management, and 3 for experience in management, for a total of 21 semester hours (11/75).

MOS-68H-002

AIRCRAFT PNEUDRAULICS REPAIRER

68H10
68H20
68H30

Exhibit Dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Summary: Supervises, inspects, or performs maintenance on aircraft hydraulic systems. *Skill Level 10:* Removes and installs tubing assemblies, hoses, valves, pressure transmitters, and switches; services filters, shock absorbers/struts; repairs tubing assemblies, hydraulic and pneumatic valves; flushes and bleeds hydraulic systems; uses and performs maintenance on common and special tools; prepares request for turn-in and repair parts; uses certain aircraft forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; applies troubleshooting techniques to diagnose and localize malfunctions to hydraulic systems, subsystems, and components; disassembles, repairs, reassembles, adjusts, and tests hydraulic systems, subsystems, and components; maintains selected items of ground support equipment; prepares forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; applies production/quality control and maintenance management principles and procedures to shop operations; plans workflow; conducts and supervises on-the-job training; may perform technical inspections of electrical/electronic and subsystems components before, during, and after repair or modification; may supervise from 6 to 19 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in aircraft hydraulic system maintenance and 3 for technical electives and additional credit in aircraft hydraulic system maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in aircraft hydraulic system maintenance and 3 for technical electives), and additional credit in aviation maintenance technology or aircraft hydraulic system maintenance on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in aircraft hydraulic system maintenance and 3 for technical electives) and 3 in aviation maintenance management, and additional credit in aviation maintenance technology or aircraft hydraulic system maintenance on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in aircraft hydraulic system maintenance and 3 for technical electives, and additional credit in aircraft hydraulic system maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 12 semester hours in aviation maintenance technology (or 9 in aircraft hydraulic system maintenance and 3 in technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective), and additional credit in aviation maintenance management or aircraft hydraulic system maintenance on the basis of institutional evaluation, for a minimum total of 24 semester hours; *if the duty position was aircraft pneudraulics repair supervisor section chief,* 3 semester hours in personnel supervision, for a total of 27 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management, 3 in personnel management, for a total of 9 semester hours (5/78).

MOS-68J-001

HELICOPTER MISSILE SYSTEMS REPAIRER

68J10
68J20
68J30

Exhibit Dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Summary: Maintains helicopter anti-tank missile systems, related fire control material and specialized test sets. *Skill Level 10:* Under close supervision, handles, stores, arms, prepares, loads, and unloads aircraft armament ammunition and missiles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs operational checks; removes, disassembles, repairs, assembles, installs, tests, and adjusts missile system, fire control, and supporting weapon components; tests, troubleshoots, and repairs special test sets and electronic, hydraulic, and mechanical components using schematics and technical drawings; implements authorized modifications; maintains records; demonstrates proper work procedures to lower skill level personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs in-depth maintenance of anti-tank missile, fire control, and supporting weapon subsystems; plans, establishes, and supervises on-the-job training; implements production, quality control, and safety procedures; may supervise from 5 to 9 persons.

Recommendation, Skill Level 10

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (5/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics electives, 3 in use and care of tools and test equipment, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 6 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronics electives, 3 in use and care of tools and test equipment, 1 in safety, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics electives, 3 in use and care of tools and test equipment, 1 in safety, 1 in personnel supervision, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 8 semester hours; *if the duty position was Helicopter Missile System Repair Supervisor,* 1 additional semester hours in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

MOS-68K-001

AIRCRAFT COMPONENTS REPAIR SUPERVISOR

68K40

Exhibit Dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Able to perform the duties of Skill Level 30 in at least one of the following MOS's: 68B (Aircraft Power Plant Repairer), 68D (Aircraft Powertrain Repairer), 68F (Aircraft Electrician), 68G (Aircraft Structural Repairer), 68H (Aircraft Pneudraulics Repairer), 68J (Helicopter Missile Systems Repairer), or 68M (Helicopter Weapon Systems Repairer); supervises maintenance operations of aircraft components repair; plans work loads in terms of resources and facilities; applies production control, quality control, and other maintenance management principles to aircraft components repair; supervises and evaluates the work performance of a mimimum of 20 lower skill level personnel; orients and instructs lower skill level personnel; conducts on-the-job training programs.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in maintenance management and 3 for field experience in personnel management (5/78).

MOS-68M-001

HELICOPTER WEAPONS SYSTEM REPAIRER

68M10

68M20

68M30

Exhibit Dates: 3/77–Present.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Component Repair).

Description

Summary: Maintains helicopter armament subsystems, weapons, and specialized tests, excluding missile systems. *Skill Level 10:* Under close supervision, handles, stores, arms, prepares, loads, and unloads aircraft armament ammunition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs operational checks; removes, installs, and adjusts armament subsystems, including electrical, hydraulic, and mechanical components; uses schematics and technical drawings; performs boresighting and alignment checks; implements modifications; maintains records; demonstrates proper work procedures to lower skill level personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs in-depth maintenance of helicopter armament systems and support equipment, excluding missile systems; plans, establishes, and supervises on-the-job training; implements production, quality control, and safety procedures; may supervise from 5 to 9 persons.

Recommendation, Skill Level 10

No recommendation because the skills, competencies, and knowledge are uniquely military in nature.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in use and care of tools and test equipment, 1 in precision measuring techniques, and credit in mechanical systems on the basis of institutional evaluation, for a minimum total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, and credit in mechanical systems on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in use and care of tools and test equipment, 2 in mechanical systems, 1 in precision measuring techniques, 1 in safety, and credit in electricity and hydraulics on the basis of institutional evaluation, for a minimum total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 2 in a mechanical systems elective, 1 in personnel supervision, 1 in safety, and credit in electricity and hydraulics on the basis of institutional evaluation, for a minimum total of 7 semester hours; *if the duty position was Helicopter Weapons System Supervisor,* 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

MOS-71B-001

CLERK-TYPIST

71B10

71B20

71B30

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 71B was discontinued and its functions were incorporated into MOS 71G, Medical Records Specialist, MOS 71L, Administrative Specialist, MOS 73C, Finance Specialist, and MOS 73D, Accounting Specialist.)

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs general clerical, typing, and related duties. *Skill Level 10:* Prepares letters and other office communications; handles mail, uses the telephone, and performs other office administrative functions; uses and maintains office machines and manages records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; types at a level comparable to that required upon completion of a beginning typing course. *Skill Level 30:* Able to perform the duties required for Skill Level 20; types at a level comparable to that required upon completion of an intermediate typing course.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office practices (12/74).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office practices and 3 in typing (12/74).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office practices and 6 in typing (12/74).

MOS-71C-001

STENOGRAPHER

71C20

71C30

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Takes and transcribes dictation of correspondence, telephone conversations, meetings, and other information for typewritten records; prepares duplicating stencils and masters and operates stencil and fluid duplicators; acts as receptionist; schedules appointments; prepares correspondence, forms, memoranda, orders, circulars, and bulletins; maintains records and files; processes incoming and outgoing mail; performs other related clerical and administrative duties. *Skill Level 20:* Takes dictation at 90 to 120 words per minute and types at 45 or more words per minute. NOTE: may have progressed to 71C20 from 71B30 (Clerk-Typist). *Skill Level 30:* Takes dictation at 120 or more words per minute and types at 55 or more words per minute.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in

dictation and transcription, 4 in typing, 2 in business communications, 2 in filing and records management, 2 in clerical record keeping, 2 for field experience in office practice, 1 in business machines (duplicating), and 1 in office practice, for a total of 18 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dictation and transcription, 6 in typing, 2 in business communications, 2 in filing and records management, 2 in clerical record keeping, 2 for field experience in office practice, 1 in business machines (duplicating), and 1 in office practice, for a total of 22 semester hours (11/75).

MOS-71C-002

STENOGRAPHER

71C10

71C20

71C30

Exhibit Dates: 9/77–Present.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Takes and transcribes dictation of correspondence, telephone and office conversations, conferences, and other information for typewritten records; uses fluid and stencil duplicators, photocopy machines, and word processing equipment; acts as receptionist; schedules appointments, and arranges conferences and interviews; makes travel schedules and reservations; prepares correspondence, forms, messages, and reports; maintains records and files; processes incoming and outgoing mail; performs other related clerical and administrative duties. *Skill Level 10:* Takes dictation at a minimum speed of 90 words per minute for 3 minutes of sustained dictation and transcribes with no major errors; types at a minimum speed of 45 words per minute on a five-minute writing with a five-word penalty per error. *Skill Level 20:* Takes dictation at a minimum of 100 words per minute for 3 minutes of sustained dictation and transcribes with no major errors; types at a minimum speed of 50 words per minute on a five-minute writing with a five-word penalty per error. *Skill Level 30:* Takes dictation at a minimum of 120 words per minute for 3 minutes of sustained dictation and transcribes with no major errors; types at a minimum speed of 55 words per minute on a five-minute writing with a five-word penalty per error; performs high-level paperwork with security aspects; may supervise 4 or 5 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in dictation and transcription, 3 in typing, 2 in business communications, 2 in filing and records management, 2 in clerical record keeping, 2 in office practice (including field experience in office practice), and 1 in business machines, for a total of 15 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category, or in the lower-division baccalaureate/associate degree category, 6 semester hours in dictation and transcription, 6 in typing, 2 in business communications, 2 in filing and records management, 2 in clerical record keeping, 3 in office practice (including field experience in office practice), and 1 in business machines, for a total of 22 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in dictation and transcription, 6 in typing, 3 in business communications, 2 in filing and records management, 2 in clerical record keeping, 3 in office practice (including field experience in office practice), and 1 in business machines, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in dictation and transcription, 6 in typing, 3 in business communications, 2 in filing and records management, 2 in clerical record keeping, 3 in office practice (including field experience in office practice), 1 in business machines, 3 in English composition, and 3 in human relations, for a total of 32 semester hours (6/78).

MOS-71D-001

LEGAL CLERK

71D20

71D50

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Summary: Supervises or assists in the preparation and processing of court martial records, investigations, and reclassification board proceedings; may act independently in the field as a legal paraprofessional; prepares miscellaneous legal documents, both civil and military; supervises or maintains an office and law library for the law officer. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Performs primarily under the direct supervision of a chief or senior legal clerk. *Skill Level 50:* Supervises the administrative functions of a legal office.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in English composition, 3 in business communications or technical writing, 3 in business law, and 3 in military legal practices and procedures, for a total of 18 semester hours; additional credit in the lower-division baccalaureate/associate degree category in office management on the basis of institutional evaluation. In the upper-division baccalaureate category, credit in office management on the basis of institutional evaluation (11/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in English composition, 3 in business communications or technical writing, 3 in business law, 3 in military legal practices and procedures, 3 in personnel management, and 3 in office management, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 in personnel management, 3 in office management and 3 for field experience in legal office management for a total of 9 semester hours (11/75).

MOS-71D-002

LEGAL CLERK

71D10

71D20

71D30

71D40

71D50

Exhibit Dates: 9/77–Present.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Summary: Performs or supervises the preparation of court martial records, board proceedings, preliminary hearings, and investigations. *Skill Level 10:* Under close supervision, assists in preparation of legal papers and forms, in conducting investigations and researching activities, and in maintaining files; types at a minimum of 30 words per minute; assists in maintaining law library. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares correspondence; compiles records into quarterly reports; provides legal assistance (military and civil) and makes referrals as needed. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a legal office or maintains a law library; provides guidance to lower skill level personnel; responsible for maintaining files. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans and organizes legal office operation; previews legal documentation for proper and prompt disposition; researches decisions, statutes, and regulations under supervision of a judge advocate or civilian attorney. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises the administrative functions of a large legal office; prepares budgets and plans programs.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in typing, 3 in office practices, and 3 in legal terminology, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in legal terminology, and 3 in English composition, for a total of 12 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, and 2 in legal procedures, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 2 in legal procedures, and 3 in English composition, for a total of 17 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 2 in legal procedures, and 3 in office management, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 2 in legal procedures, 3 in English composition, 3 in human relations, and 3 in office management, for a total of 23 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 2 in legal procedures, 3 in English composition, 3 in human relations, 3 in office management, and 3 in introduction to management, for a total of 26 semester hours. In the upper-division baccalaureate/associate degree category, 3 semester hours for field experience in office management (6/78).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in office management (6/78).

MOS-71E-001

COURT REPORTER

71E20

Exhibit Dates: 10/73-2/76.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Takes notes of activities and statements in legal proceedings and prepares them for inclusion in official legal documents; able to perform the duties required for 71B30 (Clerk-Typist); records testimony at 175 words per minute; transcribes the testimony; maintains the records of military legal proceedings.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in dictation and transcription, 3 in office procedures, 3 in technical writing, and, *if the duty assignment was assistant court reporter,* 3 in typing, for a total of 18 semester hours, or, *if the duty assignment was court reporter or senior court reporter,* 6 in typing, for a total of 21 semester hours (11/75).

MOS-71E-002

COURT REPORTER

71E20

71E50

Exhibit Dates: 3/76-8/77.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Summary: Takes notes of activities and statements in legal proceedings and prepares them for inclusion in official legal documents; able to perform the duties required for 71B30 (Clerk-Typist). NOTE: May have previously held MOS 71C (Stenographer) or 71S (Attache Specialist). *Skill Level 20:* Records complete details of statements and activities during legal proceedings; takes dictation at 175-200 words per minute, usually by means of a stenomask (an oral dictating machine), although stenotype or shorthand may be used; transcribes testimony at a minimum speed of 40 words per minute; maintains the records of military legal proceedings. *Skill Level 50:* Able to perform the duties required for Skill Level 20; serves as chief court reporter in a judge advocate section in lieu of a chief legal clerk (71D50); supervises legal office activities; reviews records prepared by subordinates for correctness and proper application of legal policies and procedures.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, and 3 in business communications or technical writing, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, 3 in business communications or technical writing, and 3 in English composition, for a total of 24 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, and 3 in business communications or technical writing, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, 3 in business communications or technical writing, 3 in English composition, 3 in military legal practices and procedures, and 3 in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in office management, and 3 for field experience in legal office management, for a total of 9 semester hours (6/76).

MOS-71E-003

COURT REPORTER

71E20

71E30

71E40

71E50

Exhibit Dates: 9/77-Present.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Summary: Takes notes of activities and statements in legal proceedings and prepares them for inclusion in official legal documents. *Skill Level 20:* Able to perform the duties required for 71D10 (Legal Clerk); takes notes at legal proceedings at a minimum of 175 words per minute, usually by means of a stenomask (an oral dictating machine), although stenotype or shorthand may be used; transcribes testimony at a minimum speed of 40 words per minute; maintains the records of military legal proceedings; uses English grammar, punctuation, and composition skills. NOTE: Required to have held Skill Level 10 of MOS 71D (Legal Clerk). *Skill Level 30:* Able to perform the duties required for Skill Level 20; may provide technical guidance to Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and assists lower skill level personnel; coordinates work assignments. *Skill Level 50:* Able to perform the duties required for Skill Level 40; instructs lower skill level personnel; reviews completed records of trial for completeness and correctness.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 6 semester hours in typing, 9 in dictation transcription, 2 in business communication or technical writing, and 3 in office procedures, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 9 in dictation and transcription, 2 in business communication or technical writing, 3 in English grammar and composition, and 3 in office procedures, for a total of 23 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in typing, 9 in dictation transcription, 2 in business communication or technical writing, 3 in office procedures, and 3 in office management, for a total of 23 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 9 in dictation and transcription, 2 in business communication or technical writing, 3 in English grammar and composition, 3 in office procedures, 3 in office management, and 3 in legal practices and procedures, for a total of 29 semester hours (6/78).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 9 in dictation and transcription, 2 in business communication or technical writing, 3 in English grammar and composition, 3 in office procedures, 3 in office management, and 6 in legal practices and procedures, for a total of 32 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management (6/78).

MOS-71F-001

POSTAL CLERK

71F20

71F40

71F50

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 71F was discontinued and its functions were incorporated into MOS 71L, Administrative Specialist.)

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Provides postal sales and services to customers. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* As a clerk, assists and serves customers by selling stamps, issuing and cashing money orders, giving information about mail restrictions, special delivery and handling procedures, preparing forms for mail subject to customs inspection, computing postage, filing claims for lost or damaged mail, and issuing insurance; sorts and distributes mail; adheres to U.S. Post Office and Army regulations; keeps records of financial transactions and administrative matters; inventories property. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a maximum of seven clerks; trains, assigns duties to, and reviews the work of clerks; plans and organizes the layout and operation of a postal facility; investigates complaints; inspects mail room to insure proper handling of mail. *Skill Level 50:* Able to perform the duties required for Skill Level

40; is a mid-level supervisor of more than 17 clerks; manages the entire operation of a postal facility.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in retailing or records administration or office management (3/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in retailing or records administration or office management, and 3 in personnel supervision (3/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in retailing or records administration or office management, 3 in personnel supervision, and 3 in business administration, for a total of 9 semester hours (3/75).

MOS-71G-001

MEDICAL RECORDS SPECIALIST

71G20
71G40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs or supervises patient admissions and transfers, patient administration, medical records and reports, and other administrative duties in the registrar division of hospitals or other medical facilities. NOTE: May have previously held MOS-71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Performs medical administrative duties; receives patients; checks care eligibility; prepares admission records; arranges appropriate patient placement; prepares daily admission and disposition reports; accounts for and safeguards funds received and deposits of patient funds and valuables; classifies, indexes, and files medical records; prepares medical reports, statistical tables, graphs, and charts; provides medical research service to professional staff; prepares correspondence relating to medical records, medical board proceedings, investigation reports, eligibility for health benefits; reviews medical boards for completeness and compliance with directives; coordinates actions required for period re-examination of persons on Temporary Disabled Retired List; assists in handling seriously ill and death cases by assisting survivors in making necessary arrangements. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and coordinates medical administrative activities; provides information to physicians, attorneys, insurance companies, or government agencies; requisitions supplies; assists in medical emergency operations planning; serves as office manager, supervising up to 29 persons; plans work schedules; assigns duties and instructs personnel in work techniques and procedures.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in medical administrative techniques, 2 in business communications, 2 in medical record keeping, 2 in filing and medical records management, 2 in medical terminology, 2 for field experience in medical office procedures, 1 in medical statistical reporting, and 1 in human relations, for a total of 14 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in medical office management, 2 in medical terminology, 2 in medical administrative techniques, 2 in business communications, 2 in medical record keeping, 2 in filing and medical records management, 2 in human relations, 2 in personnel management, and 1 in medical statistical reporting, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in office management, 2 in introduction to management, and 1 for field experience in hospital administration, for a total of 6 semester hours (11/75).

MOS-71G-002

MEDICAL RECORDS SPECIALIST

71G10
71G20
71G30
71G40
71G50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS-71L-001

ADMINISTRATIVE SPECIALIST

71L20
71L40
71L50

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs administrative office functions for a military headquarters unit; performs duties comparable to those of the civilian occupation, administrative assistant. NOTE: May have previously held MOS 71B (Clerk-typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Drafts, types, and assembles unit publications, forms, and reports; prepares correspondence, tables, graphs, and charts; answers inquiries on administrative and clerical matters; sets up and keeps alphabetic and numeric files; processes incoming and outgoing mail; receives, stores, issues, and updates publications; analyzes work flow and report form design. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans, organizes, and supervises office operations; reviews correspondence and establishes mail distribution; controls use of Xerox and other reproduction and duplicating facilities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises operation of administrative functions in Adjutant General or Inspector General sections and higher-level headquarters; inspects administrative activities and makes recommendations to correct deficiencies; interprets and supervises the execution of company policy and operating procedures; advises superiors on personnel matters; gives instructions to subordinate supervisors; coordinates company food service and supply activities.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in business communications, 3 in office procedures, 3 in typing, 3 for field experience in office practice, 2 in records management, and 1 in public relations, for a total of 16 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in business communications, 3 in records management, 3 in office procedures, 3 in typing, 3 for field experience in office management, 2 in public relations, 2 in office management, and 2 in duplicating operations, for a total of 22 semester hours. In the upper-division baccalaureate category, 2 semester hours in office management and 3 for field experience in office management (11/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in office management, 4 in business communications, 4 in public relations, 3 in records management, 3 in office procedures, 3 in office management, 3 in personnel management, 3 in typing, and 2 in duplicating operations, for a total of 31 semester hours. In the upper-division baccalaureate category, 3 semester hours in office management, 3 in personnel management, and 3 for field experience in office management, for a total of 9 semester hours (11/75).

MOS-71L-002

ADMINISTRATIVE SPECIALIST

71L10
71L20
71L30
71L40
71L50

Exhibit Dates: 9/77–Present.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Supervises or performs administrative, clerical, and typing duties; types a minimum of 25 net words a minute. *Skill Level 10:* Types routine correspondence, messages, reports, and forms; serves as a receptionist; answers the telephone; handles incoming mail and messages; maintains files; uses copying equipment; receives and maintains publications. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares special correspondence, composes routine correspondence, and proofreads correspondence for proper format and accuracy; provides technical guidance to typists and clerical personnel; prepares charts, graphs, and rosters. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises personnel performing typing, general clerical, and administrative duties; distributes workload; reviews and edits correspondence; sets up and reviews files; controls duplicating facilities; plans and organizes office operations; determines requirements for office equipment, supplies, and space. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs supervisory duties at a higher level of command. NOTE: May have progressed to 71L40 from 71L30 or 71C30 (stenographer). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises performance of administrative functions at higher level headquarters; provides guidance and engages in public relations activities. NOTE: May have progressed to 71L50 from 71L40 or 03C40 (Physical Activities Specialist).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 2 in record keeping, 1 in business communications, and 3 in office procedures, for a total of 8 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 2 in business communications, 2 in record keeping, and 4 in office procedures, for a total of 10 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in typing, 3 in business communications, 2 in record keeping, 4 in office procedures, 3 for field experience in office procedures, and 3 in office management, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 3 in business communications, 2 in record keeping, 4 in office procedures, 3 for field experience in office practices, 3 in office management, and 3 in human relations, for a total of 20 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 3 in business communications, 2 in record keeping, 4 in office procedures, 3 for field experience in office practices, 3 in office management, 3 in human relations, and 3 in personnel supervision, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management (6/78).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in typing, 3 in business communications, 2 in record keeping, 3 in records administration, 4 in office procedures, 3 in office management, and 3 for field experience in office practices, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 3 in business communications, 2 in record keeping, 3 in records administration, 4 in office procedures, 3 in office management, 3 for field experience in office practices, 4 in human relations, 2 in public relations, 3 in personnel supervision, and 3 for field experience in office management, for a total of 32 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (6/78).

MOS-71M-001

CHAPLAIN'S ASSISTANT

71M20

71M50

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Acts as an administrative assistant to a military chaplain; performs or supervises office activities such as preparing correspondence, maintaining personnel records, and assisting in budget preparation; assists the chaplain in developing and operating religious education programs; equivalent to a civilian hospital chaplain's assistant or an administrative assistant in a church or synagogue. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Performs general office duties such as reception, record keeping, written communications, and budgeting; assists in the development and establishment of religious education programs. *Skill Level 50:* Able to perform the duties required for Skill Level 20; supervises activities that assist the chaplain; acts as a paraprofessional in assisting the chaplain in the establishment and operation of religious education programs, conferences, seminars, and lectures.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in business communications, 2 in communication skills, 1 in filing, and 1 in office management, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in business communications, 2 in communication skills, and 1 in introduction to audio-visual equipment, for a total of 5 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, 4 semester hours in communications skills, 3 in office management, 2 in business communications, and 1 in filing, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in communication skills, 2 in business communications, 2 in office management, and 1 in introduction to audio-visual equipment, for a total of 9 semester hours (11/75).

MOS-71M-002

CHAPEL ACTIVITIES SPECIALIST

71M10

71M20

71M30

71M40

71M50

Exhibit Dates: 9/77–Present.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Acts as administrative assistant to a military chaplain; performs or supervises office activities such as preparing correspondence and maintaining records; assists the chaplain in preparing for chapel and religious programs; comparable to a civilian hospital chaplain's assistant or administrative assistant in a church or synagogue. *Skill Level 10:* Prepares facility for services; prepares programs and bulletins; prepares schedules and religious materials; operates and maintains audio-visual equipment; acts as receptionist; answers routine inquiries; requisitions, receives, and maintains equipment and supplies; types letters, messages, forms, and records; maintains files. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; assists in planning and programming religious services and education requirements. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to personnel in accomplishment of these duties. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises lower skill level personnel; coordinates volunteer, part-time, and other personnel; reviews prepared correspondence and reports; participates in planning and programming religious activities and participates in preparation of budget; maintains fund records including disbursements, receipts, and petty cash. *Skill Level 50:* Able to perform the duties required for Skill Level 40; performs supervisory and management duties in large installation.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in business communications, 2 in communication skills, 1 in filing, 1 in office management, and 2 in introduction to audio-visual equipment, for a total of 8 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in office management, 3 in communication skills, 1 in filing, 3 in business communications, and 2 in introduction to audio-visual equipment, for a total of 11 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in office management, 3 in communication skills, 1 in filing, 3 in business communications, 2 in introduction to audio-visual equipment, and 3 in human relations, for a total of 14 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in office management, 3 in business communications, 6 in communication skills, 2 in introduction to audio-visual equipment, and 2 in budget administration, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in office management, 3 in business communications, 6 in communication skills, 2 in introduction to audio-visual equipment, 2 in budget administration, and 3 in human relations, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in public relations (6/78).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in office management, 3 in business communications, 6 in communication skills, 2 in introduction to audio-visual equipment, and 2 in budget administration, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 3 in business communications, 6 in communication skills, 2 in introduction to audio-visual equipment, 2 in budget administration, 3 in human relations, and 3 in applied psychology, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in public relations (6/78).

MOS-71N-001

TRAFFIC MANAGEMENT COORDINATOR

71N10
71N20
71N30
71N40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Summary: Coordinates the departure and arrival of freight and personnel by air, rail, highway, and water. *Skill Level 10:* Performs clerical duties associated with the logistics of freight and personnel movements; issues government and civilian shipping documents, including freight bills, bills of lading, and freight manifest sheets; assists military members in the preparation of travel itineraries, personal property shipping documents, and passenger movement forms. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-scale freight movement office; plans, directs, and controls operation of subordinate personnel; assists in the development of future transportation plans; supervises freight reconsignment, maintains liaison with military and civilian transportation facilities; reviews, consolidates and prepares reports covering transportation movement operations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises personnel at a large-scale freight movement office; when requested, reviews recommendations concerning facilities and site selection for depots, terminals, and railheads; advises superiors on present and future transportation capabilities and technical problems.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or physical distribution management (5/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in traffic and transportation or in physical distribution management, 3 in human relations, 3 in personnel supervision and additional credit in traffic and transportation or in physical distribution management on the basis of institutional evaluation, for a minimum total of 10 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and additional credit in traffic and transportation or in physical distribution management on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management (5/76).

MOS-71P-001

FLIGHT OPERATIONS COORDINATOR

71P20
71P40
71P50

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 655 (Air Operations).

Description

Summary: Schedules, clears, and dispatches aircraft. *Skill Level 20:* Prepares routing and flight orders; processes local and extended flight clearances; coordinates flight plans with other agencies such as FAA; maintains flight information board; keeps records and reports on flight operation activities; arranges ground services for transient aircraft; interprets weather reports and weather maps; understands and corrects aeronautical charts and publications used in navigation. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the scheduling, clearance, and dispatching of aircraft; plans and schedules work assignments; trains personnel; obtains instrument flight clearances; plans and supervises the movement of both personnel and cargo by air. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager responsible for either flight operations or overall operations of a unit such as a division aviation section or an operations section of an aviation battalion. NOTE: May have progressed to 71P50 from 71P40 or 93D40 (Flight Simulator Specialist).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft dispatching, 3 in aircraft operations management, and 2 in office practices, for a total of 8 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in personnel management, 3 in personnel training, and 2 in office practices, for a total of 20 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 6 in personnel management, 6 in personnel training, and 2 in office practices, for a total of 26 semester hours (2/75).

MOS-71P-002

FLIGHT OPERATIONS COORDINATOR

71P10
71P20
71P30
71P40
71P50

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 644 (Air Operations).

Description

Summary: Schedules, clears, and dispatches aircraft. *Skill Level 10:* Processes cross-country and local flight clearances; coordinates flight plans with other agencies, such as the FAA; maintains flight information; prepares, types, and maintains records and reports on flight operations and activities; maintains current files on flying regulations and navigational aid information; arranges ground services for transient aircraft; interprets and posts teletype weather reports; understands terminology used in air navigation and is aware of air traffic control advisory procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises a small flight operations activity consisting of 5 to 12 subordinate personnel; schedules aircraft missions, dispatches aircraft, and performs associated administrative duties; plans and schedules work assignments of subordinate flight operations personnel; checks work of subordinates and instructs them in proper work techniques and procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports; assists in preparing pre-accident plans. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises a medium-sized flight operations activity consisting of 13 or more subordinate personnel; provides technical guidance to subordinate personnel; supervises the preparation of the situation map; prepares operations letters; assists administratively in aircraft accident investigations; assists in the preparation of letters of agreement, operations estimates, and operations orders. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large flight operations activity. *Skill Level 50:* Able to perform the duties required for preceding skill levels; is a mid-level manager.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, and 2 in office practices, for a total of 11 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, and 2 in office practices, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 11 semester hours. In the upper-division baccalaureate category, credit in aviation management or air traffic operations on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in federal aviation regulations, 3 in personnel supervision, 3 in organization and management, and 2 in office practices, for a total of 23 semester hours. In the upper-division baccalaureate category, credit in aviation management or air traffic operations on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation management or air traffic operations and additional credit on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation management or air traffic operations, 6 for field experience in management, 3 in introduction to management, and 3 in personnel management, and additional credit for an internship in education on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/76).

MOS-71Q-001

Information Specialist

71Q20
71Q40
71Q50

Exhibit Dates: 10/73-2/77.

Career Management Field: 71 (Administration), *subfield* 715 (Information).

Description

Summary: Supervises or participates in the administration of information programs. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Serving as a reporter, is responsible for gathering information; preparing and editing news items, feature articles, and editorials for newspapers; preparing publicity releases and information releases; and taking, developing, and selecting photographs. Serving as an editor, edits news stories, prepares headlines and captions, plans format and layout, corrects and revises galley sheets, considers libel and copyright laws, makes reporter assignments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and coordinates an information program and trains subordinates in all aspects of journalism. *Skill Level 50:* Able to perform the duties required for Skill Level 40; coordinates the activities of a large information program involving several media.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in news reporting, 3 in feature writing, 3 in basic photography, 3 in publicity release writing, and 6 for field experience in journalism, for a total of 21 semester hours; *if the duty assignment was editor,* additional credit as follows: 3 semester hours for a practicum in news preparation, 3 for a practicum in news editing, 3 in layout and design, 3 for field experience in management, and 3 in personnel supervision, for a total of 36 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 for the duty assignment as editor (36 semester hours). In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, and 6 for field experience in public relations (5/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 for the duty assignment as editor (36 semester hours). In the upper-division baccalaureate category, 3 semester hours in human relations, 3 in introduction to management, 3 in office management, 3 in records administration, 6 for field experience in management, and 6 for field experience in public relations, for a total of 24 semester hours (5/76).

MOS-71Q-002

Journalist

71Q10
71Q20
71Q30
71Q40

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Supervises or participates in the administration of information programs. *Skill Level 10:* Serving as a reporter, is responsible for gathering information; preparing and editing news items, feature articles, and editorials for newspapers; preparing publicity releases and information releases; and taking, developing and selecting photographs. Serving as an editor, edits news stories, prepares headlines and captions, designs format and layout, corrects and revises galley sheets, considers libel and copyright laws, and makes reporter assignments. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel; coordinates news-gathering activities, and makes reporter assignments. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the administration of an information program and trains subordinates in all aspects of journalism, including circulation methods and business policies. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates the activities of a large information program involving several media; implements new programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in news reporting, 3 in feature writing, 3 in basic photography, 3 in publicity release writing, 3 in continuity writing, and 3 for field experience in journalism, for a total of 21 semester hours; *if the duty assignment was editor,* additional credit as follows: 3 semester hours for a practicum in news preparation, 3 in personnel supervision, 3 in copy editing, and 3 in layout and design, for a total of 33 semester hours (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in news reporting, 3 in feature writing, 3 in basic photography, 3 in publicity release writing, 3 in continuity writing, 6 for field experience in journalism, 3 for a practicum in news preparation, 3 in personnel supervision, 3 in copy editing, 3 in layout and design, and 3 in human relations, for a total of 39 semester hours (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in news reporting, 3 in feature writing, 3 in basic photography, 3 in publicity release writing, 3 in continuity writing, 6 for field experience in journalism, 3 for a practicum in news preparation, 3 in personnel supervision, 6 in copy editing, 3 in layout and design, 3 in human relations, and credit in marketing on the basis of institutional evaluation, for a minimum total of 42 semester hours. In the upper-division baccalaureate category, 3 semester hours in advanced news reporting (5/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in news reporting, 3 in feature writing, 3 in basic photography, 3 in publicity release writing, 3 in continuity writing, 6 for field experience in journalism, 3 for a practicum in news preparation, 3 in personnel supervision, 6 in copy editing, 3 in layout and design, 3 in human relations, 3 in introduction to media program management, and credit in marketing on the basis of institutional evaluation, for a minimum total of 45 semester hours. In the upper-division baccalaureate category, 3 semester hours in advanced news reporting, 3 for field experience in management, and 3 in personnel management, for a total of 9 semester hours (5/78).

MOS-71R-001

Broadcast Specialist

71R20
71R40
71R50

Exhibit Dates: 10/73-2/77.

Career Management Field: 71 (Administration), *subfield* 715 (Information).

Description

Summary: Supervises or participates in the operation of a radio or television broadcast center. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Prepares scripts, announces, and gives play-by-play coverage of events; operates sound equipment and performs preventive maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as script supervisor, producer, and director of radio or television programs. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as station manager and coordinates programs and broadcast activities within the Armed Forces network.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast news writing, 3 in continuity writing, 3 in announcing, 3 in studio techniques, 3 for field experience in television production, and additional credit on the basis of institutional evaluation, for a minimum total of 15 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast news writing, 3 in continuity writing, 3 in announcing, 3 in studio techniques, 3 for field experience in television production, 6 for television workshop, 3 in television directing, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a minimum total of 33 semester hours (5/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 6 in broadcasting/station management, and 3 in records administration, for a total of 18 semester hours (5/76).

MOS-71R-002

BROADCAST SPECIALIST

71R10
71R20
71R30
71R40

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Supervises or participates in the operation of a radio and television broadcast center. *Skill Level 10:* Prepares scripts; announces, performs, and gives play-by-play coverage of events; operates and performs preventive and emergency maintenance on sound equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as script supervisor, producer, and director of radio and television programs. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as station manager and coordinates programs and broadcast activities within the Armed Forces Network.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast newswriting, 3 in continuity writing, 3 in announcing, 3 in studio techniques, 3 in public speaking, 3 in oral interpretation, and 3 for field experience in television production, for a total of 21 semester hours (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast newswriting, 3 in continuity writing, 3 in announcing, 3 in studio techniques, 3 in public speaking, 3 in oral interpretation, 2 for field experience in television production, 3 in human relations, and 1 for field experience in broadcasting, for a total of 24 semester hours (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast newswriting, 3 in continuity writing, 3 in announcing, 3 in studio techniques, 3 in public speaking, 3 in oral interpretation, 3 for field experience in television production, 3 in human relations, 3 for field experience in broadcasting, 3 in documentary production, 3 in news and public affairs, 3 in personnel supervision, for a total of 36 semester hours (5/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast newswriting, 3 in continuity writing, 3 in announcing, 3 in studio techniques, 3 in public speaking, 3 for field experience in television production, 3 in oral interpretation, 3 in human relations, 3 for field experience in broadcasting, 3 in documentary production, 3 in news and public affairs, 3 in personnel supervision, and 6 for field experience in management, for a total of 39 semester hours. In the upper-division baccalaureate category, 6 semester hours in broadcast management, 3 in records administration, and 3 in personnel management, for a total of 12 semester hours (5/78).

MOS-71S-001

ATTACHE SPECIALIST

71S20
71S30

Exhibit Dates: 10/73-8/77. (Effective 9/77, MOS 71S was discontinued and its functions were incorporated into MOS 71L, Administrative Specialist.)

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs general administrative and office duties in support of Defense Army Attache office located in an embassy of the United States of America; able to perform the duties required for 71B20 (Clerk-Typist). *Skill Level 20:* Types at a minimum speed of 35 words per minute; drafts and assembles correspondence; answers or responds to inquiries; operates duplicating equipment; prepares, computes, and processes vouchers for payment; drives and performs operator maintenance on sedan; establishes and keeps administrative and intelligence files; uses intelligence procedures to route classified correspondence, to file intelligence data, and to safeguard classified information in the office; assists the attache in collecting, integrating, tabulating, writing, and disseminating intelligence information; prepares distribution lists for intelligence reports; types and proofreads intelligence reports; coordinates with United States intelligence and embassy personnel to facilitate the flow and exchange of intelligence information. *Skill Level 30:* Performs the duties required for Skill Level 20; performs cryptographic functions, including encrypting and decrypting messages, the preparation of reports on cryptographic operation, and the safeguarding of cryptographic materials; instructs less experienced personnel in proper work techniques and procedures.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in typing, 3 in office practices, 2 in filing, 2 in business communications, 2 in record keeping, and 1 in business machines (duplicating), for a total of 14 semester hours (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in typing, 3 in office practices, 2 in filing, 2 in business communications, 2 in record keeping, and 1 in business machines (duplicating), for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 3 in office practices, 2 in filing, 2 in business communications, 2 in record keeping, 1 in business machines (duplicating), 3 in human relations, and 3 for field experience in office management, for a total of 22 semester hours (5/76).

MOS-71U-001

CARD AND TAPE WRITER

71U20
71U40

See the exhibit for MOS 74B.

MOS-72B-001

COMMUNICATIONS CENTER SPECIALIST

72B10
72B20
72B30
72B40

Exhibit Dates: 10/73-9/74. (Effective 10/74, MOS 72B was discontinued and its functions were incorporated into MOS 72E, Telecommunications Center Specialist.)

Career Management Field: 72 (Communications and Audio Visual), *subfield* 721 (Communications Operations).

Description

Summary: Supervises communications center activities or operates automatic, semi-automatic, and manual teletypewriter equipment, cryptodevices, and related office equipment to send, receive, and route messages of a technical or classified nature. *Skill Level 10:* Performs as a messenger. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates teletypewriter and associated office equipment; maintains administrative records in a communications control center. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a senior telecommunications and office equipment operator working alone or as a member of a team; enforces security regulations; maintains records systems. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; is a first-line supervisor of teletypewriter operators, with responsibility for the management of a medium-sized or large communications section; reviews machine accounting processes; plans, organizes, and coordinates use of personnel and equipment; may supervise 30 or more persons.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in typewriting or office machine operation or technical report writing (3/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting or office machine operation or technical report writing (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in typewriting or office machine operation and 3 in technical report writing. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting or office machine operation, 3 in technical report writing, 3 in management, and 3 in personnel supervision, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in management and 3 in personnel supervision on the basis of institutional evaluation (3/75).

MOS-72C-001

CENTRAL OFFICE SWITCHBOARD OPERATOR (TELEPHONE SWITCHBOARD OPERATOR)

72C20
72C40

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 72 was discontinued and its functions were incorporated into MOS 36C, Wire Systems Installer/Operator.)

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or performs operator maintenance on manual, semi-automatic, and automatic switchboards and auxiliary equipment. *Skill Level 20:* Assists in the implacement of mobile switchboards; places local and long distance calls; checks circuits to ascertain proper functioning; reads traffic and cabling diagrams; uses handtools, such as electrician's knife and screwdriver. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; schedules operators; instructs operators on proper techniques and routing of calls; maintains updated traffic diagrams for operator reference; maintains station logs; requisitions supplies; supervises preventive maintenance on switchboards and auxiliary equipment; prepares operational and administrative reports.

Recommendation, Skill Level 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (3/76).

MOS-72E-001

TELECOMMUNICATIONS CENTER SPECIALIST

72E10
72E20
72E30
72E40

Exhibit Dates: 10/74-2/78.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates telecommunications center equipment and remote data terminal devices or performs functions related to these operations. *Skill Level 10:* Processes and delivers messages and performs related clerical functions in telecommunications centers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assigns switch center or telecommunications center equipment for operation; installs and operates teletypewriter equipment; performs and records preventive maintenance on all equipment utilized; reproduces and distributes messages. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares and maintains the files necessary for accounting of cryptomaterial. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor; coordinates work activities in a data communications terminal; makes work assignments; coordinates equipment phase-down in event of power failure; prepares, conducts, and supervises on-the-job training of subordinate personnel; reviews accounting procedures and recommends necessary improvements; provides technical information on communications center operations to superiors; prepares final reports.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electronics and 3 for field experience in communications center operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in records administration (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in records administration, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS-72E-002

TELECOMMUNICATIONS CENTER OPERATOR

72E10
72E20
72E30
72E40

Exhibit Dates: 3/78-Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises or operates telecommunications center equipment and remote data terminal devices in either fixed-station or mobile mode; operates on-line and off-line cryptographic equipment for message security; receives, processes, and sends messages, including typing, using teletype, telegraph, and computer equipment. *Skill Level 10:* Receives, processes, and transmits messages, coded or uncoded; performs related clerical, typing, and administrative functions; installs and operates teletypewriter and automated data equipment; selects telecommunication equipment for on-line operation, prepares papertape and card messages, and uses security procedures for transmission; performs and maintains records of preventive maintenance on equipment and associated vehicles and generators; maintains message reference files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and performs administrative functions in telecommunciations centers, including preparing and maintaining files; applies secure procedures for handling of high-precedence material and cryptomaterial; advises shift supervisor; insures accurate and secure handling of messages, and prepares reports of telecommunication operations. NOTE: Duties may also include computer equipment training and operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the operation of a fixed or mobile communication center and remote terminals; coordinates activities in the center and supervises training; prepares reports of center operations, conducts audits, and reviews of cryptomaterial; supervises 7 to 13 persons and evaluates their performances; coordinates routing of message traffic with switching centers. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operations of telecommunications center; coordinates organizational, training, and technical operations; supervises office management, including clerical, administrative, and accounting procedures; makes work assignments; supervises 14 or more personnel in telecommunications operations, and evaluates their capabilities, including written evaluation reports; provides technical information to commander and staff sections; prepares final periodic reports.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electronics, 2 in communications electronics, and 2 in typing, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in communications electronics and 2 in typing (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 2 in communications electronics, 2 in typing, and 3 for field experience in communications center operations, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in communications electronics, 2 in typewriting, and 3 in records administration, for a minimum total of 8 semester hours; *if duties included computer equipment operation,* 1 additional semester hour in computer operations, for a total of 9 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in communications electronics, 2 in typing, 3 in records administration, and 3 in personnel supervision, for a minimum total of 11 semester hours; *if duties included computer equipment operation,* 1 additional semester hour in computer operations, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management (10/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics, 2 in communications electronics, 2 in typing, 3 for field experience in communications center operations, and 2 in office practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 in communications electronics, 2 in typing, 3 in records administration, 3 in personnel supervision, and 3 for field experience in office management, for a minimum total of 14 semester hours; *if* *duties included computer equipment operation,* 2 additional semester hours in computer operations, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in office management (10/79).

MOS–72F–001

Data Communications Terminal Specialist

72F20

72F40

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 72F was discontinued and its functions were incorporated into MOS 72E, Telecommunications Center Specialist.)

Career Management Field: 72 (Telecommunications).

Description

Summary: Operates communication terminal equipment, including teletypewriter, cards, tapes, and cryptographic and associated devices. *Skill Level 20:* Processes and delivers messages; reviews data presented for adherence to procedures, format, routing, and precedence for input to an automated data communications network; operates control equipment to integrate teletype systems with digital network; performs preventive maintenance on data communications terminal equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises data communications terminal operations, personnel, and equipment maintenance activities; prepares technical and administrative reports; conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate or in the lower-division baccalaureate/associate degree category, 3 semester hours in communications equipment operation, 3 in digital data transmission, 3 in basic mathematics, 2 in typing, 1 in electronic communication theory, 1 in electronic equipment maintenance, 1 in digital principles, and 1 in AC and DC circuits, for a total of 15 semester hours (3/75).

Recommendation, Skill Level 40

In the vocational certificate or in the lower-division baccalaureate/associate degree category, 3 semester hours in communications equipment operation, 3 in digital data transmission, 3 in basic mathematics, 3 in office management, 3 in personnel supervision, 2 in typing, 1 in electronic communication theory, 1 in electronic equipment maintenance, 1 in digital principles, and 1 in AC and DC circuits, for a total of 21 semester hours; *if pay grade E-7 was achieved,* 3 additional credits for field experience in data communications (3/75).

MOS–72G–001

Data Communications Switching Center Specialist

72G20

72G40

72G50

Exhibit Dates: 3/75–2/78.

Career Management Field: 72 (Telecommunications).

Description

Summary: Operates and monitors data communications equipment and peripheral devices in an automatic digital message switching center. *Skill Level 20:* Operates data communication equipment, including system control to monitor and direct digital message switching center operations; processes and transmits messages; understands circuit and message switching capabilities of data communications switching center equipment; assigns computer and peripheral equipment configurations for message processing on-line operation, off-line operation, and maintenance functions; prepares messages for transmission in paper tape or card form; prepares system flow of data to and from digital computers connected to electromechanical devices; operates peripheral equipment such as card readers, card punches, magnetic tape stations, high-speed printers, control consoles, off-line message processor, and teletypewriters; prepares station logs, assures adequate supplies, keeps files, indexes tapes, and prepares in-station message-handling efficiency statistics. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a shift supervisor or traffic service supervisor; supervises switching center shift operations applicable to console and console traffic service operations, programming, technical control, and terminal activities; coordinates routing of traffic with other stations and equipment maintenance; directs and conducts on-the-job training; prepares reports on such topics as circuit and equipment outages, traffic statistics, software and hardware deficiencies, program patches, circuit restoral actions, and procedural problems. NOTE: May have progressed to 72G40 from 72G20 or 72E40 (Telecommunications Center Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a data communications supervisor or manager; performs office management functions; assists in problem-solving pertinent to programming, tributaries, equipment, maintenance, and administration; prepares administrative and technical reports on cryptographic and data communictions center operation; supervises organization, training, and technical operations. NOTE: May have progressed to 72G50 from 72G40, 72E40 (Telecommunications Center Specialist), 72H40 (Central Office Operations Specialist), or 72C40 (Central Office Switchboard Operator).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, or in the upper-division baccalaureate category, 3 semester hours in principles of data communications (6/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in princples of data communications, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in principles of data communications and 3 for field experience in management (6/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data communications, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 3 in technical writing, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in principles of data communications, 3 for field experience in management, and 3 in introduction to management, for a total of 9 semester hours (6/76).

MOS–72G–002

Data Communications Switching Center Specialist

72G10

72G20

72G30

72G40

72G50

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS–72H–001

Central Office Operations Specialist

72H20

72H40

Exhibit Dates: 10/74–2/78.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates switchboards and radio consoles providing communications to the President and other persons and offices of the executive branch of the government. *Skill Level 20:* Able to perform the duties required for 72C20 (Central Office Switchboard Operator); sets up and operates voice transmissions equipment to provide ground and air communications; makes continuity checks to ensure all local and nationwide circuits are working; maintains a roster showing current locations of staff, cabinet, and military officials and aides; maintains charts, circuitry logs, and worldwide locator systems pertaining to presidential communications networks; uses security regulations; employs proper telephone operator procedures; installs switchboards and radiophone interfaced equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises central office communications operations; initiates training programs and sets standards for training of central office personnel; oversees preventive maintenance of switchboard and auxiliary equipment; coordinates with telephone companies, both domestic and foreign, for placement of telephone service and long-line circuits; instructs and demonstrates proper work procedures and techniques; estimates traffic loads and equipment utilization; supervises the installation and maintenance of radio and telephone communications equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in elementary broadcasting, and 3 in small instrument repair, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in elementary broadcasting, 3 in small instrument repair, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in systems management (3/76).

MOS-72H-002

Central Office Operations Operator

72H10
72H20
72H30
72H40

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-73C-001

Finance Specialist

73C20
73C30
73C40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Summary: Receives and disburses cash; keeps financial records pertaining to payroll, travel, commercial accounts, and leave. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Under supervision, disburses, collects, and keeps custody of cash, checks, and bonds; balances and reconciles cash blotter and check register; exchanges foreign currency and military payment certificates; counsels and assists persons with pay and allowance problems; reviews accuracy of data, coding, numbering, and processing of documents, correspondence, and computer input and output for the Army pay system; posts and annually reviews military leave records; keeps records and prepares reports for income taxes and FICA; prepares statements of legal residence; keeps pay accounts for civilian employees, including payroll control registrar and leave accounts; determines the validity of commercial bills by examining supporting and substantiating documents; processes valid bills for payment and keeps bills, register, and file of documents; prepares, processes, and makes payment of vouchers for supplies, equipment, and non-personnel services; applies computer-oriented language in recording data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs quality assurance audits of pay, leave, travel, disbursement, and collection records; performs comprehensive reviews of on-site personnel financial records; detects errors, determines the causes, and initiates corrective changes; verifies procedures for examination and determination of entitlements; conducts pay inquiry analyses and procedural reviews; modifies procedures to improve efficiency, insure accuracy, and assure proper financial accountability; interprets and applies directives, regulations, and other legal requirements on civilian, military, and dependent personnel travel and dislocation allowances; interprets and applies Comptroller General decisions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as a first-line supervisor, plans and organizes work schedules, assigns duties, and instructs subordinates in proper work techniques and procedures; prepares administrative, technical, and personnel reports; provides liaison with finance organizations.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in business mathematics, 3 in government payroll procedures, 3 in business communications, 3 in introduction to credit, 2 in office practices, and 1 in typing, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in government payroll procedures, 2 in office practices, 1 in typing, and 1 in personal finance and credit, for a total of 13 semester hours (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in business mathematics, 3 in government payroll procedures, 3 in office management, 3 in office accounting, 3 in introduction to credit, 3 in business communications, 2 in office practices, and 2 in typing, for a total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in government payroll procedures, 3 in office management, 2 in office practices, 2 in typing, and 1 in personal finance and credit, for a total of 17 semester hours (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in business mathematics, 3 in government payroll procedures, 3 in office accounting, 3 in introduction to credit, 3 in business communications, 3 in report writing, 3 in office management, 2 in office practices, and 2 in typing, for a total of 25 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in government payroll procedures, 3 in office management, 3 in personnel supervision, 3 in report writing, 2 in office practices, 2 in typing, and 1 in personal finance and credit, for a total of 23 semester hours (3/75).

MOS-73C-002

Finance Specialist

73C10
73C20
73C30
73C40

Exhibit Dates: 9/77–Present.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Summary: Completes forms, verifies data, computes amounts, and prepares reports of activity pertaining to pay, leave, travel, and personal finance records of military personnel. *Skill Level 10:* Determines entitlements to pay, prepares input, and verifies leave and earnings; prepares pay vouchers; verifies, corrects, and maintains files of personal financial records; operates calculator and other office equipment; answers inquiries from service members. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; computes, reviews, verifies, and corrects items related to travel reports and allowances; disburses, collects, and prepares reconciliation reports; performs quality assurance audits and special reviews, and reports findings. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may supervise from 4–18 lower skill level personnel; prepares reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may supervise from 3–24 personnel in a large finance organization.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office procedures, and 2 in office machines, for a total of 5 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office machines, and 3 in office procedures, for a total of 6 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in business mathematics, 2 in office machines, 3 in office procedures, and 2 in office management, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office machines, 3 in office procedures, 2 in office management, and credit in human relations on the basis of institutional evaluation, for a minimum total of 8 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in business mathematics, 2 in office machines, 2 in business communications, 3 in office procedures, and 3 in office management, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office machines, 2 in business communications, 3 in office procedures, 3 in office management, and credit in human relations and personnel supervision on the basis of institutional evaluation, for a minimum total of 11 semester hours (6/78).

MOS-73D-001

Accounting Specialist

73D20
73D30
73D40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Summary: Conducts fiscal accounting, internal review, and budget operations. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Under supervision, analyzes, records, reconciles, and reports accounting transactions; keeps general, subsidiary, and cost accounting ledgers, journals, and fund control records; keeps vouchers and other files to support ledger entries; prepares cost reports and correspondence concerning funds and supply transactions; reviews requests for funds for legality, conformity with policy, and availability; keeps control accounts of consumer funds, financial property, stock funds, and industrial funds. *Skill Level 30:* Able to perform the duties required for Skill Level 20; under supervision, performs budgeting and internal review operations at military bases and higher levels of command, advises superiors on policies and procedures pertaining to budgeting and internal review; assists superiors in the development of instructions for data collection and the preparation and analysis of budget reports;

prepares reports, estimates, and analyses required for budget management purposes. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor; plans and coordinates all phases of accounting, internal review, and budget operations; instructs subordinates in work techniques and procedures; reviews subordinates' work; plans and coordinates with the data processing center all activities that pertain to mechanized accounting, such as processing daily business, preparing reports, and changes in regulations that affect input and output; assists in designing mechanized accounting systems; coordinates the preparation activities for visits by Army Audit Agency and General Accounting Office representatives.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in clerical record keeping, 3 in business mathematics, 3 in business communications, 2 in accounting principles, 2 for field experience in accounting, and 1 in typing, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 2 in accounting principles, 2 for field experience in accounting, and 1 in typing, for a total of 11 semester hours (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in clerical record keeping, 3 in business mathematics, 3 in business communications, 3 in office management, 2 in accounting principles, and 1 in typing, for a total of 16 semester hours; *if pay grade E-7 was achieved,* add 4 semester hours for field experience in accounting, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in office management, 2 in principles of accounting, and 1 in typing, for a total of 12 semester hours; *if pay grade E-7 was achieved,* 4 additional semester hours for field experience in accounting, for a total of 16 semester hours (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in clerical record keeping, 2 in accounting principles, 6 for field experience in accounting, 3 in business mathematics, 3 in business communications, 3 in office management, 3 in introduction to data processing, and 1 in typing, for a total of 25 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in office management, 3 in personnel supervision, 3 in introduction to data processing, 2 in principles of accounting, 4 for field experience in accounting, and 1 in typing, for a total of 22 semester hours (3/75).

MOS-73D-002

ACCOUNTING SPECIALIST

73D10
73D20
73D30
73D40

Exhibit Dates: 9/77-Present.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Summary: Records, verifies, and reconciles data in accordance with Army accounting procedures. *Skill Level 10:* Records and verifies data; prepares error-correction documents and reports; maintains files; operates calculator and other office equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10, and provides technical guidance to Skill Level 10 personnel; prepares expense reconciliations; interprets budget guidelines from higher headquarters and develops cost factors; develops activity budget submissions, reports, estimates, and analyses; conducts audit of accounting records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs lower skill level personnel; may supervise 4-14 persons; plans and coordinates accounting operations; reviews reports for completeness and correctness. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may supervise more than 15 persons; supervises operations in a large accounting activity.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in office procedures, 1 in business mathematics, and 2 in office machines, for a total of 5 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in business mathematics, 2 in record keeping, and 1 in accounting, for a total of 8 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in office procedures, 2 in business mathematics, 3 in record keeping, 1 in accounting, and 2 in office management, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in business mathematics, 3 in record keeping, 1 in accounting, and 2 in office management, and credit in human relations on the basis of institutional evaluation, for a minimum total of 11 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in office procedures, 2 in business mathematics, 3 in record keeping, 2 in accounting, 3 in office management, and 3 in management principles, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in business mathematics, 3 in record keeping, 2 in accounting, 3 in office management, and 3 in management principles, and credit in human relations and personnel supervision on the basis of institutional evaluation, for a minimum total of 16 semester hours (6/78).

MOS-73Z-001

FINANCE SENIOR SERGEANT

73Z50

Exhibit Dates: 10/73-Present.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Able to perform the duties required for 73C40 (Finance Specialist), and 73D40 (Accounting Specialist); supervises or performs finance operations, accounting operations, or comptroller functions at military installations, agencies, or commands; supervises and reviews payroll accounting procedures and records, travel disbursements, and internal review and budget functions; performs staff functions such as research and preparation of financial accounting statements and statistical reports; as a finance operations chief at Grade E-8, supervises a minimum of 25 persons; as a finance operations chief at Grade E-9, supervises a minimum of 60 persons. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer) or 71S (Attache Specialist).

Recommendation

In the vocational certificate category, 6 semester hours for field experience in accounting, 3 in payroll accounting, 3 in business communications, 1 in filing, and additional credit as follows: *if the duty assignment was division chief at pay grade E-8,* 4 semester hours in office management, 4 in personnel supervision, and 2 in budgeting and systems, for a total of 23 semester hours; *if the duty assignment was finance operations chief at pay grade E-8,* 5 semester hours in office management, 5 in personnel supervision, and 3 in budgeting and systems, for a total of 26 semester hours; *if the duty assignment was finance operations chief at pay grade E-9,* 6 semester hours in office management, 6 in personnel supervision, and 4 in budgeting and systems, for a total of 29 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in accounting, 3 in business communications, and additional credit as follows: *if the duty assignment was division chief at pay grade E-8,* 4 semester hours in personnel supervision and 4 in office management, for a total of 17 semester hours; *if the duty assignment was finance operations chief at pay grade E-8,* 5 semester hours in personnel supervision, 5 in office management, and 1 in accounting systems, for a total of 20 semester hours; *if the duty assignment was finance operations chief at pay grade E-9,* 6 semester hours in personnel supervision, 6 in office management, and 2 in accounting systems, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, and additional credit as follows: *if the duty assignment was either division chief at pay grade E-8 or finance operations chief at pay grade E-8,* 3 semester hours for field experience in management, for a total of 6 semester hours; *if the duty assignment was finance operations chief at pay grade E-9,* 6 semester hours for field experience in management, for a total of 9 semester hours (11/75).

MOS-74B-001

CARD AND TAPE WRITER

74B10
74B20

Exhibit Dates: 10/73-Present. NOTE: Until 9/75, this MOS was designated 71U20 and 71U40, Card and Tape Writer.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates keypunch, verifier, paper tape punch, and keytape machine to translate input data into machine readable form; corrects any errors which may occur in the transcribing process. *Skill Level 10:* Able to prepare program drum cards for keypunch, follow record format specifications, and load and unload the machines. NOTE: May have progressed to 74B10 from 71B10 (Clerk-Typist). *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises the conversion of input data into machine readable format and maintains quality control; trains and assigns work to subordinates; maintains workload records; initiates operating changes; requisitions, stores, and issues supplies and equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in keypunch operation (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in keypunch operation and 3 in office administration. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration (12/75).

MOS-74D-001

ADPS MACHINE OPERATIONS SPECIALIST

74D20
74D40

Exhibit Dates: 10/73-8/75.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates or supervises the operation of a computer console and computer peripheral equipment; operates or supervises the operation of unit-record equipment. *Skill Level 20:* Able to operate unit-record devices such as sorters, interpreters, reproducers, card processors, and collators; wires control panels; able to operate computer peripheral equipment such as card reader/punch, printers, tape duplicators, tape units, and optical scanners. *Skill Level 40:* Able to perform the duties required for Skill Level 20; able to supervise control panel wiring and operation of unit-record equipment and computer peripheral devices.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in unit-record operation (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in unit-record operation and 3 in office administration. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration (12/75).

MOS-74D-002

COMPUTER/MACHINE OPERATOR

74D10
74D20
74D30
74D40

Exhibit Dates: 9/75-Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates or supervises the operation of a computer console and computer peripheral equipment; operates or supervises the operation of unit-record equipment. *Skill Level 10:* Operates unit-record devices such as sorters, interpreters, reproducers, card processors, collators, and decollators; operates computer peripheral equipment such as card reader/punch printers, tape and disk units, and optical scanners; may prepare wiring diagrams and wire control panels; performs functions of a scheduling clerk and tape librarian. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates the console of small, medium, or large scale computer systems; interprets system flow charts; supervises all activities within a tape library. NOTE: May have progressed to 74D20 from 74D10 or 74B10 (Card and Tape Writer). *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the operation of a computer console, peripheral computer equipment, and unit-record equipment. NOTE: May have progressed to 74D30 from 74D20 or 74B20 (Card and Tape Writer). *Skill Level 40:* Able to perform the duties required for Skill Level 30; schedules production and prepares work schedules; assigns duties and instructs personnel in work techniques.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in unit-record operation and 2 in computer operations (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in unit-record operation and 4 in computer operations. In the lower-division baccalaureate/associate degree category, 1 semester hour in computer operations management (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in unit-record operation and 4 in computer operations. In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations management (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in unit-record operations and 4 in computer operations. In the lower-division baccalaureate/associate degree category, 4 semester hours in computer operations management, 3 in human relations, 3 for field experience in management, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 10 semester hours (6/76).

MOS-74E-001

COMPUTER SYSTEMS OPERATOR

74E10
74E20
74E30
74E40

Exhibit Dates: 10/73-8/75. (Effective 9/75, MOS 74E was discontinued and some of its functions were incorporated into MOS 74D, Computer/Machine Operator.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates electronic computer console and auxiliary equipment. *Skill Level 10:* Performs computer console supporting activities; mounts magnetic disk and tape; operates ADP equipment; keeps a magnetic tape library. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates a computer system consisting of a central processing unit, magnetic tape units and/or disk storage units in a nonmultiprogramming or nonmultiprocessing environment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates a computer system in multiprogramming and multiprocessing environment; operates a computer system which has remote-inquiry stations and a program-interrupt capability. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises computer system and auxiliary equipment operator personnel; prepares production schedules.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in file organization and processing, 2 in unit-record machine operations, and 2 in computer system operations, for a total of 10 semester hours (3/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in file organization and processing, 3 in computer system operations, and 2 in unit-record machine operations, for a total of 11 semester hours (3/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in computer system operations, 3 in introduction to data processing, 3 in file organization and processing, 2 in unit-record machine operations, 2 in computer operating systems, and 1 in introduction to systems analysis and design, for a total of 16 semester hours. In the upper-division baccalaureate category, 2 semester hours in computer operating systems and 1 in introduction to systems analysis and design (3/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in computer system operations, 3 in introduction to data processing, 3 in file organization and processing, 3 in operations management, 3 in personnel supervision, 2 in unit-record machine operations, 2 in computer operating systems, and 1 in introduction to systems analysis and design, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in operations management, 3 in personnel supervision, 2 in computer operating systems, and 1 in introduction to systems analysis and design, for a total of 9 semester hours (3/75).

MOS-74F-001

COMPUTER PROGRAMMER

74F20

Exhibit Dates: 10/73-8/75

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Analyzes, writes, tests, and implements computer programs and/or conducts data system studies involving investigation, evaluation, development, and implementation of new or modified data processing systems for an application area; develops procedures necessary for reducing data processing applications into detailed instructions, routines, and codes; constructs flow charts and block diagrams to outline necessary computer operations in the processing of data; develops computer programs from flow charts; tests, debugs, and implements programs; produces necessary documentation.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics, 3 in introduction to computer programming/data processing, 3 in Assembler language programming, 3 in computer file organization, 3 in advanced programming techniques, 3 in systems and program design, 3 in ANSI COBOL programming, and 3 in computer operating systems, and additional credit for programming skills in other programming languages (FORTRAN, RPG, etc.) on the basis of institutional evaluation, for a minimum total of 27 semester hours. In the upper-division baccalaureate category, 3 semester hours in advanced programming techniques, 3 in systems and program design, and 3 in computer operating systems, and additional credit on the basis of institutional evaluation, for a minimum total of 9 semester hours (3/75).

MOS-74F-002

PROGRAMMER/ANALYST

74F10
74F20
74F30
74F40

Exhibit Dates: 9/75-Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Analyzes, writes, tests, and implements computer programs and/or conducts data system studies involving investigation, evaluation, development, and implementation of new or modified data processing systems for an application area. *Skill Level 10:* Assists in the preparation, editing, testing, and implementation of computer programs; prepares and analyzes program and system flow charts; prepares program documentation; reviews and revises computer programs; writes simple Assembler and COBOL programs. *Skill Level 20:* Able to perform the duties required for Skill Level 10; analyzes, writes, edits, tests, and implements computer programs; sorts, merges, and processes runs; writes detailed program specifications for minor problems; may supervise computer programming activities. NOTE: May have progressed to 74F20 from 74F10, 74B10 (Card and Tape Writer), or 74D10 (Computer/Machine Operator). *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs or assists in supervising programming and systems studies in personnel, intelligence, transportation, supply, maintenance, medical, finance, and data communications areas; develops procedures to produce flow charts, block diagrams, and detailed instructions, routines, and codes for data processing application. NOTE: May have progressed to 74F30 from 74F20, 74B20 (Card and Tape Writer), or 74D20 (Computer/Machine Operator). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises systems analysis and programming activities; supervises, advises, guides, and evaluates programmers and systems analysts.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, and 3 in systems analysis and design, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in systems analysis and design (6/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, 3 in computer file organization, and 4 in systems analysis and design, for a total of 16 semester hours. In the upper-division baccalaureate category, 4 semester hours in systems analysis and design (6/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, 3 in computer file organization, and 6 in systems analysis and design, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours in systems analysis and design (6/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, 3 in computer file organization, 6 in systems analysis and design, 3 in systems and programming management, 3 in human relations, 3 for field experience in management, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 27 semester hours. In the upper-division baccalaureate category, 6 semester hours in systems analysis and design, 3 in systems and programming management, 3 in human relations, and 3 for field experience in management, for a total of 15 semester hours (6/76).

MOS-74G-001

ADP (AUTOMATIC DATA PROCESSING) SYSTEMS ANALYST

74G20

Exhibit Dates: 10/73-8/75. (Effective 9/75, MOS 74G was discontinued and some of its functions were incorporated into MOS 74F, Programmer/Analyst.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Conducts systems studies involving investigation, evaluation, and development of data processing systems for and in conjunction with a user; performs systems design and prepares detailed systems specifications, including those for all files and programs required; implements new or modified systems and prepares appropriate systems documentation; able to train the system user in the operation of the new system. NOTE: May have progressed to 74G20 from 74C20 (Data Analysis Specialist), 74D20 (ADPS Machine Operation Specialist), or 74F20 (Computer Programmer).

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in systems analysis, 3 in data processing principles, and 3 in computer file organization, for a total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours in systems analysis (12/75).

MOS-74Z-001

DATA PROCESSING NCO

74Z50

Exhibit Dates: 10/73-Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Supervises a data processing installation including systems analysts, computer programmers, computer operators, and related support groups; delegates task areas to key subordinates and manages their activities; maintains a current knowledge of accepted systems and programming standards, personnel procedures, and office operation techniques; knows the basic principles of systems analysis, computer hardware, and unit-record equipment; possesses an overall understanding of computer programming. NOTE: May have detailed knowledge in one or more of the following areas; computer operations, computer equipment maintenance, computer programming, and systems analysis, through previous MOS experience in the automatic data processing career management field (74).

Recommendation

In the vocational certificate category, 3 semester hours in unit record data processing, 3 in data processing principles, 2 in computer operations, and 1 in computer programming, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in management, 3 in data processing principles, 3 in introduction to management, 3 in office management, 3 in personnel management, 2 in business systems analysis, and 1 in computer programming, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in office management, 3 in personnel management, and 2 in business systems analysis, for a total of 17 semester hours (12/75).

MOS-75B-001

UNIT CLERK

75B20

Exhibit Dates: 10/73-8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Performs clerical and related administrative functions, including typing, filing, serving as a receptionist, ordering office supplies, and completing forms.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in office procedures (11/75).

MOS-75B-002

PERSONNEL ADMINISTRATION SPECIALIST

75B10

75B20

Exhibit Dates: 9/77-Present.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Performs clerical and administrative functions. *Skill Level 10:* Types and completes forms; prepares correspondence; maintains files; maintains charts; orders office supplies; serves as a receptionist; answers inquiries and arranges appointments; provides input data for computer system. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in typing and 1 in office procedures and credit in business communications on the basis of institutional evaluation (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 2 in office procedures, and 2 in business communications, for a total of 5 semester hours (6/78).

MOS-75C-001

PERSONNEL MANAGEMENT SPECIALIST

75C20

75C40

Exhibit Dates: 10/73-8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Supervises or participates in the occupational classification and management of manpower resources. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), 71S (Attache Specialist), or 75B (Unit-Clerk). *Skill Level 20:* Classifies, assigns, and reassigns personnel based on evaluation of credentials and qualifications; is familiar with interview techniques and interviews personnel as part of the evaluative process; processes reports, training and assignment requests, and personnel assignments and promotions; monitors personnel management records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel management function and is capable of supervising up to 8 subordinate personnel management specialists; plans, organizes, and supervises work activities; coordinates personnel management actions with other agencies as necessary.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in interview techniques, and 2 in typing, for a total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in principles of vocational counseling (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in interview techniques, 3 in personnel supervision, and 2 in typing, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in office management principles and practices, 3 in principles of vocational counseling, and 3 for field experience in management, for a total of 9 semester hours (11/75).

MOS-75C-002

PERSONNEL MANAGEMENT SPECIALIST

75C10

75C20

Exhibit Dates: 9/77-Present.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Participates in the occupational classification and management of manpower resources. *Skill Level 10:* Compares personnel records with classification standards to determine qualifications of individuals; recommends duty positions and reclassifications based on such determinations; maintains files; types forms and correspondence; able to type 20 words per minute; may interview incoming personnel. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 2 in office procedures, and credit in interview techniques on the basis of institutional evaluation, for a minimum total of 3 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in typing, 3 in office procedures, and credit in interview techniques on the basis of institutional evaluation, for a minimum total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 3 in office procedures, and credit in interview techniques on the basis of institutional evaluation, for a minimum total of 4 semester hours (6/78).

MOS-75D-001

PERSONNEL RECORDS SPECIALIST

75D20

75D40

Exhibit Dates: 10/73-8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Initiates and maintains military personnel records or supervises their initiation and maintenance. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), 71S (Attache Specialist), or 75B (Unit-Clerk). *Skill Level 20:* Posts information extracted from several sources on enlisted and officer personnel records; examines records for accuracy and completeness and initiates actions to correct deficiencies; prepares and processes questionnaires; prepares and maintains emergency data and beneficiary records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises up to 33 persons; plans, organizes, and assigns work to subordinates; coordinates activities with other personnel workers; reviews and checks personnel records and information for accuracy; initiates action to change operating procedures, policies, and regulations, when necessary; is responsible for requisitioning, storing, and issuing office supplies and equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in typing, and 3 in business communications or technical writing, for a total of 9 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in typing, 3 in business communications or technical writing, and 3 in office management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in office management and 2 for field experience in personnel supervision (11/75).

MOS-75D-002

PERSONNEL RECORDS SPECIALIST

75D10

75D20

Exhibit Dates: 9/77-Present.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Initiates and maintains military personnel records or supervises their initiation and maintenance. *Skill Level 10:* Posts information from several sources on enlisted and officer personnel records; examines records for accuracy and completeness and initiates actions to correct deficiencies; prepares and processes questionnaires; prepares and types correspondence and forms; maintains files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises up to nine Skill Level 10 personnel; plans, organizes, and assigns work; reviews and checks personnel records and information for accuracy; coordinates activities with other personnel workers.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 2 in business communications or technical writing, and 3 in record keeping, for a total of 6 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 2 in business communications or technical writing, 3 in record keeping, and 2 in office management, for a total of 8 semester hours (6/78).

MOS-75E-001

PERSONNEL ACTIONS SPECIALIST

75E20

75E40

Exhibit Dates: 10/73-8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Supervises and processes special and routine personnel actions concerning members of the military service; counsels and assists military personnel with personal affairs relating to benefits, rights, and privileges. Related entry-level civilian occupations include personnel clerk, personnel supervisor, or personnel counselor. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), 71S (Attache Specialist), or 75B (Unit Clerk). *Skill Level 20:* Performs general office duties relative to processing personnel actions; advises and assists military personnel who may be entitled to military benefits; assists in correspondence concerning Social Security benefits; acts as an information referral source in directing individuals with personal affairs problems to appropriate agencies, organizations, and support facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises subordinates who are involved in processing personnel actions and/or assisting and counseling in certain personal affairs; reviews and checks the accuracy of personnel actions; performs office management functions with regard to procedures, policies, and regulations.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in personal finance, 2 in business communications, 2 in communication skills, 2 in office management, and 1 in filing, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 2 in personal finance, 2 in business communications, and 1 in office management, for a total of 5 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in office management, 3 in personnel supervision, 2 in personal finance, 2 in business communications, and 1 in filing, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 3 in personnel supervision, 2 in personal finance, and 2 in business communications, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 2 for field experience in management (11/75).

MOS-75E-002

PERSONNEL ACTIONS SPECIALIST

75E10
75E20

Exhibit Dates: 9/77-Present.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Processes personnel actions concerning service members and their dependents. *Skill Level 10:* Completes forms required for training schools, awards and decorations, release and resignation, transfer, reenlistment, retirement, and casualties; provides information on benefits; types forms, correspondence, and messages; maintains related files. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 2 in office procedures, and credit in business communications on the basis of institutional evaluation, for a minimum total of 3 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in typing, 3 in office procedures, and 2 in business communications, for a total of 6 semester hours (6/78).

MOS-75Z-001

PERSONNEL SENIOR SERGEANT

75Z40
75Z50

Exhibit Dates: 10/73-8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Supervises all aspects of personnel operations, including personnel management, personnel records, and personnel actions; plans and organizes workload and makes work assignments; instructs subordinate personnel; reviews, consolidates, and drafts reports and surveys; researches specific policies and procedures relating to officer and enlisted personnel administration; as a mid-level manager, advises superiors on personnel administrative activities. NOTE: Able to perform the duties required for 75C40 (Personnel Management Specialist), 75D40 (Personnel Records Specialist), or 75E40 (Personnel Actions Specialist). *Skill Level 40:* Supervises up to 18 persons in a segment of a large personnel office or in a small or medium-sized personnel office. *Skill Level 50:* Supervises up to 24 persons in a large segment of a large personnel office or serves as the principal noncommissioned officer of a large personnel office.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in typing, 3 in office procedures, 3 in business communications or technical writing, and 3 in office management, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, 3 in business communications or technical writing, 3 in office management, 3 in personnel supervision, and 3 in managerial principles, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in vocational counseling techniques, 3 in applied psychology, and 6 in personnel management, and additional credit in management on the basis of institutional evaluation, for a minimum total of 15 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in vocational counseling techniques, 3 in applied psychology, 6 in personnel management, 3 for field experience in management, and additional credit in management on the basis of institutional evaluation, for a minimum total of 18 semester hours (11/75).

MOS-75Z-002

PERSONNEL SENIOR SERGEANT

75Z30
75Z40
75Z50

Exhibit Dates: 9/77-Present.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Supervises all aspects of personnel operations, including personnel administration, personnel management, personnel records, and personnel actions. *Skill Level 30:* Plans and organizes workload and makes work assignments; instructs subordinate personnel; supervises up to 5 persons in a segment of a large personnel office or in a small personnel office; reviews, consolidates, and drafts reports and surveys; researches specific policies and procedures relating to officer and enlisted personnel administration; reviews data prepared for computer input and reconciles output; as a mid-level manager, advises superiors on personnel administrative activities. NOTE: May have progressed to 75Z30 from 75B20 (Personnel Administration Specialist), 75C20 (Personnel Management Specialist), 75D20 (Personnel Records Specialist), or 75E20 (Personnel Actions Specialist). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises up to 18 persons in a segment of a large personnel office or in a small or medium-sized personnel office. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises up to 24 persons in a large segment of a large personnel office or serves as the principal noncommissioned officer of a large personnel office.

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in office procedures, 3 in office management, and 3 in business communications or technical writing, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in office management, 3 in business communications or technical writing, 3 in introduction to computer concepts, 3 in human relations, and 2 in personnel supervision, for a total of 17 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in office procedures, 3 in office management, 3 in business communications or technical writing, and 3 in computer concepts, for a minimum total of 12 semester hours; and 3 semester hours in records management on the basis of institutional evaluation, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in office management, 3 in business communications or technical writing, 3 in introduction to computer concepts, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a minimun total of 21 semester hours; and 3 semester hours in records management on the basis of institutional evaluation, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (6/78).

Recommendation, Skill Level 50

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in personnel management and 6 for field experience in management (6/78).

MOS-76A-001

SUPPLYMAN

76A10

Exhibit Dates: 10/73-9/74. (Effective 10/74, MOS 76A was discontinued and its functions were incorporated into 76Y10, Unit and Organization Supply Specialist and Armorer.)

Career Management Field: 76 (Supply).

Description

As a storekeeper or warehouse clerk, receives, inventories, inspects, issues, delivers, and transfers property; stores property to provide for rotation of stocks within established sensitive, classified, radioactive, hazardous, and inflammable storage areas; provides for protection of personnel; prevents deterioration, contamination, and destruction of property; uses technical catalogs; knows stock record accounting methods; uses various office machines to maintain the records systems.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in office machine operations, 1 in records management, and 1 in elementary logistics, for a total of 3 semester hours (3/75).

MOS-76D-001

MATERIEL SUPPLYMAN

76D10
76D20
76D30
76D40

Exhibit Dates: 3/76-2/78.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Manages, receives, stores, maintains, preserves, and issues major end items and repair part supplies. *Skill Level 10:* Prepares and maintains stock records including inventory, stock control, and accounting reports; operates office machines; prepares requests, processes receipts, maintains prescribed stock levels, and maintains maintenance records; uses catalogs in identification of major assemblies, subassemblies, and associated repair parts; performs technical edit, stock accounting, and application by researching catalogs, manuals, publications, parts lists, microfiche, and other means; visually inspects, verifies, and classifies incoming equipment and repair parts; maintains locator card system; participates in location surveys and inventories; performs as equipment maintenance clerk; codes equipment and maintenance data for automated data processing application. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; reviews requests for major and controlled items; visually inspects salvage material to determine proper disposition; utilizes automatic data processing to assist in management. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans and organizes major end items and repair parts supply operations; organizes, plans, and controls warehouse and storage activities; directs personnel in supply/inventory control management functions; determines repair part requirements and space allocation; conducts inspections and analyzes supply activities for efficiency; determines material handling equipment requirements; conducts on-the-job training. *Skill Level 40:* Performs the duties required for Skill Level 30 and serves as commodity manager; assists in appraisal of supply operations and training; performs inspections and provides technical assistance.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, and 2 in parts management, for a total of 7 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in parts management, 2 in inventory control, and 2 in office machines, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in parts management, 3 in record keeping, 2 in inventory control, 2 in office machines, and 2 in office procedures, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in parts management, 3 in record keeping, 3 in personnel supervision, 2 in inventory control, 2 in office machines, and 2 in office procedures, for a total of 18 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in parts management, 3 in record keeping, 3 in personnel supervision, 3 for field experience in management, 2 in inventory control, 2 in office machines, and 2 in office procedures, for a total of 21 semester hours (6/76).

MOS-76D-002

MATERIAL SUPPLY SPECIALIST

76D10
76D20
76D30
76D40

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-76J-001

MEDICAL SUPPLYMAN

76J10
76J20
76J30
76J40

Exhibit Dates: 3/76-2/77.

Career Management Field: 76 (Supply).

Description

Summary: Requests, receives, inventories, stores, preserves, issues salvage, controls stock, and accounts for medical supplies and equipment. *Skill Level 10:* Transports and handles medical supplies and equipment; inventories medical supplies and assists in financial inventory accounting; determines requisition objectives and verifies quantities and quality of materials received; performs in-storage care and preservation of medical supplies, including special procedures for handling pharmaceuticals, biologicals, blood fractions, and medicines; assists in medical materiel serviceability inspections; interprets medical terminology and vocabulary directly related to supply functions; operates office machines; keeps medical supply files and records. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a small medical supply, stock control, or storage activity; plans medical supply and equipment operations; assigns duties, plans workloads, and instructs personnel in work techniques and procedures; directs inventory management activities; controls stock rotation and establishes delivery control activities; reviews and prepares technical, personnel, and administrative reports on medical supply activities. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a medium-sized medical stock control, or storage activity.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, and 1 in medical terminology, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, and 1 in medical terminology, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office machines, 2 in office procedures, and 1 in medical terminology, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office machines, 2 in office procedures, and 1 in medical terminology, for a total of 16 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in personnel supervision, 3 for field experience in management, 2 in inventory control, 2 in office machines, 2 in office procedures, and 1 in medical terminology, for a total of 19 semester hours (6/76).

MOS-76J-002

MEDICAL SUPPLYMAN

76J10
76J20
76J30
76J40
76J50

Exhibit Dates: 3/77–2/78.

Career Management Field: 76 (Supply and Services), *subfield* 761 (Supply).

Description

Summary: Supervises or performs requisitioning, receipt, inventory management, storage, preservation, stock control, and accounting of medical supplies and equipment. *Skill Level 10:* Transports and handles medical supplies and equipment; inventories and issues medical supplies; performs in-storage care and preservation; applies special procedures for handling, storage, packaging and shipping pharmaceuticals, biologicals, blood fractions, and medicines; interprets medical terminology and vocabulary directly related to supply functions; operates office machines; keeps administrative and medical supply files; assists in keeping records on equipment operation and maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; responsible for local purchasing. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small-size medical supply, stock control, or storage activity; plans medical supply and equipment operations; assigns duties, plans workloads, and instructs personnel in work techniques and procedures; responsible for budgeting and managing funds; works with automated property book system. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises medium-size medical supply, stock control, or storage activity. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large-size medical supply, stock control, or storage activity or serves as principal noncommissioned officer of medical depot; analyzes medical logistical management data.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, 1 in medical terminology, 1 in filing, and credit in record keeping and office management on the basis of institutional evaluation, for a minimum total of 7 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 1 in medical terminology, 2 in office management, and 2 in filing, for a total of 13 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, and 2 in computer concepts, for a total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, and 3 in human relations, for a total of 25 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, and 3 for field experience in management, for a total of 25 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, 3 in human relations, and 3 for field experience in management, for a total of 28 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/78).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, and 6 for field experience in management, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, 3 in human relations, 3 for field experience in management, and 3 in personnel supervision, for a total of 31 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel supervision, for a minimum total of 6 semester hours; *if served as principal noncommissioned officer,* 3 semester hours in personnel management, for a total of 9 semester hours (6/78).

MOS-76J-003

MEDICAL SUPPLY SPECIALIST

76J10
76J20
76J30
76J40
76J50

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-76P-001

STOCK CONTROL SUPPLYMAN

76P10
76P20
76P30
76P40

Exhibit Dates: 3/76–2/78.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Performs inventory management functions and stock record keeping functions pertaining to the receipt, distribution, and issue of material. *Skill Level 10:* Prepares stock records and other documents, such as inventory, stock control and accounting sheets; operates office machines; prepares and processes requisitions, stockage listings, and receipt documents; performs financial inventory accounting administration functions; performs accounting and sales functions; interprets supply documents in an automated environment for input and output processing. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-sized stock control and accounting activity, sales activity, or property disposal activity; plans and organizes work schedules and instructs subordinates; plans and organizes operations to conform with work standards and quality control requirements; conducts on-the-job training; assists in all aspects of purchasing and contracting activities and acts as contracting officer; serves as imprest fund custodian cashier. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large stock control and accounting activity, sales activity, or property disposal activity.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, and 2 in retail sales, for a total of 7 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, and 2 in business mathematics, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a total of 19 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 2 for field experience in sales management (6/76).

MOS-76P-002

Stock Control Specialist

76P10
76P20
76P30
76P40

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-76S-001

Vehicle Materiel Supply Specialist
(Automotive Repair Parts
Specialist)

76S20
76S40

Exhibit Dates: 10/73-2/76. (Effective 3/76, MOS 76S was discontinued and its functions were incorporated into MOS 76D, Materiel Supplyman.)

Career Management Field: 76 (Supply).

Description

Summary: Receives, stores, and issues vehicle repair parts. NOTE: Able to perform the duties required for 76P20 (Stock Control and Accounting Specialist). *Skill Level 20:* Identifies automotive repair parts by illustrations and number; maintains inventory records; determines the need to replenish stock items and prepares requisitions for replacement. *Skill Level 40:* Able to perform the duties required for Skill Level 20; organizes, plans, and supervises activities related to the storage of automotive repair parts; normally supervises more than 10 subordinates; conducts on-the-job training; modifies warehouse and storage facilities for maximum utilization of space; complies with regulations and directives pertaining to inventory accounting, stock funding, reclamation, salvage, and disposal.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in automotive parts inventory and supply and 1 in technical records and publications (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in office procedures, 3 in business communications, 2 in automotive parts inventory and supply, and 2 in automotive parts management, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive parts management, 2 in office management, 2 in personnel supervision, and 2 in business communications, for a total of 8 semester hours (3/75).

MOS-76V-001

Storage Supplyman

76V10
76V20
76V30
76V40

Exhibit Dates: 3/76-2/78.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Stores and issues material; performs receipt, administrative process, inspection, and packing and shipment of material. *Skill Level 10:* Reviews and verifies shipping documents and unit of issue; inspects incoming and outgoing supplies and equipment for damage; operates materials handling equipment; performs inventories and location surveys; selects supplies and/or equipment for issue or shipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; plans, organizes, and controls warehousing, packing, and crating activities; applies management principles; compiles statistical warehouse data; determines requirements and requests, assigns, and controls use of warehouse facilities and equipment; supervises equipment storage, including document control and location inventories. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises a medium-sized material warehousing activity. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large material warehousing activity; conducts surveillance inspection of materials in storage.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, and 2 in inventory control, for a total of 8 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in inventory control, and 2 in office procedures, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, and 2 in office procedures, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office procedures, and 2 in material management, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office procedures, and 2 in material management, for a total of 18 semester hours (6/76).

MOS-76V-002

Storage Specialist

76V10
76V20
76V30
76V40

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-76W-001

Petroleum Supply Specialist
(Petroleum Storage Specialist)

76W20
76W40
76W50

Exhibit Dates: 10/73-8/76.

Career Management Field: 92 (Petroleum).

Description

Summary: Operates and maintains petroleum storage, dispensing, and distribution facilities and pipeline systems. *Skill Level 20:* Serves as a petroleum pump operator, tank farm attendant, pipeline patrolman, or cleaning and packaging specialist; cleans and fills petroleum containers; maintains pipeline systems, pressure reducing stations, and dispensing equipment, including booster, transfer, and main-line pumps; applies firefighting and fire prevention techniques; visually inspects outgoing products to insure proper quantity and packaging and to detect contamination or deterioration; gages storage tanks; makes temperature and volume conversions to account for and inventory petroleum products; takes samples for laboratory examination; loads, unloads, and cleans tank cars, tank trucks, and storage trucks. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises from 7 persons in a pump station crew to more than 49 in a pipeline crew; estimates requirements for personnel, storage space, and equipment; uses product cycles to minimize product contamination; performs quality surveillance procedures to determine causes of product contamination and to carry out petroleum reclamation and salvage; supervises petroleum dispatching through work assignments and review of work plans. *Skill Level 50:* Able to perform the duties required for 76W40 or 92C40 (Petroleum Laboratory Specialist); as the principal noncommissioned officer in a large petroleum operation, assists officers in the planning, coordination, and supervision of petroleum storage and distribution and in the appraisal of operations and training; supervises and inspects work performed by subordinate noncommissioned officers; collects and prepares material pertaining to petroleum operations and training; may serve as the first sergeant of a company, a mid-level managerial position involving personnel, supply, training, and inspection responsibilities.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathematics, and 2 in pump maintenance, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 for field experience in management, and 3 in industrial safety, for a minimum total of 9 semester hours; and, *if the duty assignment was petroleum pipeline supervisor at pay grade E-6 or if pay grade E-7 was achieved,* 3 additional semester hours in personnel supervision and 2 in technical writing, for a total of 14 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 for field experience in management, 3 in introduction to management, 3 in industrial safety, 3 in office administration, 3 in record keeping, 3 in technical writing, and 2 in material management, for a total of 26 semester hours (6/76).

MOS-76W-002

PETROLEUM SUPPLY SPECIALIST

76W10
76W20
76W30
76W40
76W50

Exhibit Dates: 9/76-2/78.

Career Management Field: 92 (Petroleum).

Description

Summary: Operates and maintains petroleum storage, dispensing and distribution facilities and pipeline systems. *Skill Level 10:* Receives and dispenses bulk and packaged petroleum products; operates equipment such as forklift trucks, conveyors, and cranes in loading, unloading, moving, and storing petroleum supplies; marks petroleum containers for proper identification; conducts safety inspections of storage and handling equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises aircraft refueling; assures adherence to safety procedures; maintains inventory records of petroleum products; inspects petroleum storage sites; may supervise small petroleum storage or dispensing activity; maintains pipeline systems and pressure reducing stations; applies fire fighting and fire prevention techniques. *Skill Level 30:* Able to perform the duties required for Skill Level 20; schedules, orders, dispatches and otherwise recommends movement of petroleum products; supervises pipeline or pump station operation and petroleum supply storage facilities; uses product cycles to minimize product contamination in storage facilities or pipelines; supervises dispersion and camouflage of supplies and equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; insures compliance with fire and safety regulations; coordinates petroleum operations at staff level; furnishes required reports on equipment to higher headquarters; performs quality surveillance; may supervise up to sixteen persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as the principal noncommissioned officer in a large petroleum operation, assists commissioned officers in the planning, coordination, and supervision of petroleum storage and distribution and in the appraisal of operations and training; supervises and inspects work performed by subordinate noncommissioned officers; collects and prepares material pertaining to petroleum operations and training; may serve as a first sergeant of a company, a mid-level managerial position involving personnel, supply, training, and inspection responsibilities. NOTE: May have progressed to 76W50 from 76W40 or 92C40 (Petroleum Laboratory Specialist).

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in fire safety (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathematics, and 2 in pump maintenance, for a total of 6 semester hours (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in personnel supervision (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathematics, and 2 in pump safety, 2 in technical writing, and 3 in industrial safety, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 3 in personnel supervision, 3 for field experience in personnel supervision, 3 in human relations, and 2 in technical writing, for a total of 14 semester hours (11/77).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in technical writing, 2 in fire safety, 2 in basic mathematics, 2 in pump maintenance, and 3 in industrial safety, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 3 in personnel supervision, 3 for field experience in personnel supervision, 3 in human relations, 3 in technical writing, 3 in record keeping, 3 in office administration and 2 in material management, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/77).

MOS-76W-003

PETROLEUM SUPPLY SPECIALIST

76W10
76W20
76W30
76W40
76W50

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-76X-001

SUBSISTENCE SUPPLYMAN

76X10
76X20
76X30
76X40

Exhibit Dates: 3/76-2/78.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Receives, stores, issues, distributes inventories, sells, and ships subsistence (food) supplies. *Skill Level 10:* Receives and checks accuracy of quantities of subsistence supplies received; checks orders received for quality and segregates damaged supplies; stores supplies and maintains locator records; issues stock and performs inventories; performs stock control and accounting, and requests supplies to maintain stock levels; operates office machines and material handling equipment; checks quality and quantity of outgoing supplies and prepares shipment; performs operator maintenance and service on equipment; distributes field rations; performs commissary store functions including stocking, pricing, and inventory; maintains supply records and files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises food distribution and small commissary operations; plans and coordinates supply activities; directs supply personnel; applies principles of automatic data processing to supply system; conducts on-the-job training; checks accuracy of work; inspects warehouse cooler and freezer units; recommends corrective action and improved methods in the supply procedures; administers stock control; performs sales functions in commissary stores; analyzes statistical data and reports. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises a medium-sized commissary or food supply activity. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large commissary or food supply activity; interprets and uses annual food plans; manages food reserve stocks; insures compliance with food supply policies.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices and 2 in office machines, for a minimum total of 5 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 8 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, and 2 in business mathematics, for a minimum total of 10 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a minimum total of 14 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in personnel supervision, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a minimum total of 17 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 20 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in warehouse practices, 3 in record keeping, 3 in personnel supervision, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a minimum total of 20 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 23 semester hours (6/76).

MOS-76X-002

SUBSISTENCE SUPPLY SPECIALIST

76X10
76X20
76X30
76X40

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-76Y-001

UNIT/ORGANIZATION SUPPLYMAN

76Y10
76Y20
76Y30
76Y40

Exhibit Dates: 3/76-2/78.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Supervises or performs duties connected with the requisition, receipt, storage, accounting, and issuance of organizational, installation, and individual supplies. *Skill Level 10:* Serves as unit supply clerk; prepares supply records and forms, inventory control listings and count cards, and inventory adjustment reports; practices safety in storage operations; loads and unloads supplies and operates forklifts; operates office machines and keeps administrative files; performs salvage operations; uses supply publications; prepares clothing for issue and processes laundry; determines supply needs by consulting property books records; maintains the security of small arms. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; establishes priorities and assigns work; conducts on-the-job training; maintains automated supply accounting system; computes supply usage factors; supervises the issue, handling, storage, and security of sensitive items and small arms. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises personnel in a large supply activity (serving over 450 military personnel); trains and supervises personnel in external load rigging for rotary wing aircraft. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves on the staff at a battalion headquarters; analyzes statistical data to ascertain trends, conformity to standards, and efficiency; improves supply methods and procedures; coordinates supply activities with other units.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office procedures, 2 in office machines, and 1 in typing, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office procedures, 3 in inventory control, 2 in office machines, and 1 in typing, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in record keeping, 3 in office procedures, 3 in inventory control, 2 in office machines, and 1 in typing, for a total of 18 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in human relations, 3 in record keeping, 3 in office administration, 3 in inventory control, 2 in office machines, and 1 in typing, for a total of 21 semester hours (6/76).

MOS-76Y-002

UNIT SUPPLY SPECIALIST

76Y10
76Y20
76Y30
76Y40

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-76Z-001

SENIOR SUPPLY SERGEANT

76Z50

Exhibit Dates: 10/73-2/78.

Career Management Field: 76 (Supply and Service), *subfield* 760 (Supply General).

Description

Able to perform the duties required for Skill Level 40 of any MOS in the supply career management field (76); serves as a mid-level manager, supervising personnel engaged in large supply and service operations such as laundry, bath, graves registration, decontamination, transportation, property disposal, medical supply, commissary operations, and resupply by airdrops; analyzes reports and appraises supply operations and training; manages stock control and accounting, procurement, and inventory control; supervises storage, receiving, issue, materials handling, supply locator systems, facility safety, and supply security operations; coordinates supply support data systems, salvage operations, and repair parts supply procedures; supervises the preparation of operating instructions, reports, and related technical material; recommends units for assignment to support special operations.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office administration, 3 in personnel supervision, 3 in inventory control, 3 in office procedures, 3 in warehouse practices, 3 in business mathematics, 2 in office machines, and 1 in typing, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in records administration, 3 in human relations, and 6 for field experience in management, for a total of 18 semester hours (6/76).

MOS-76Z-002

SENIOR SUPPLY SERGEANT

76Z50

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-79D-001

REENLISTMENT NCO
(CAREER COUNSELOR)

79D30
79D40
79D50

Exhibit Dates: 3/78-Present.

Career Management Field: 79 (Recruitment and Retention).

Description

Summary: Counsels military personnel with regard to reenlistment and performs related reenlistment duties. *Skill Level 30:* Contacts, interviews, and advises enlisted personnel about reenlistment prerequisites, options, obligations, opportunities, and benefits; assists in designing individual career plans, using personnel records and data from interview and counseling sessions; relates physical, mental, and moral qualifications of individuals to prescribed standards, and determines if service schooling is needed; processes reenlistment documents; handles related administrative tasks of maintaining publications, compiling data, preparing reports, planning reenlistment ceremonies, and performing follow-ups. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to Skill Level 30 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and evaluates lower skill level personnel; assigns duties; recommends reenlistment policy changes and develops and assesses reenlistment programs.

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in salesmanship and 1 in technical report writing. In the lower-division baccalaureate/associate degree category, 2 semester hours in public speaking, 2 in interview techniques, 1 in educational techniques, 1 in record keeping, and 1 in technical report writing, for a total of 7 semester hours. In the upper-division baccalaureate category, 1 semester hour for field experience in counseling (7/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 2 semester hours in public speaking, 3 in interview techniques, 2 in educational techniques, 1 in record keeping, and 1 in technical report writing, for a total of 9 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in counseling and 2 in vocational counseling (7/79).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in public speaking, 3 in interview techniques, 2 in educational techniques, 1 in record keeping, 1 in technical report writing, and 2 in personnel supervision, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in counseling, 2 in vocational counseling, and 1 in personnel management, for a total of 6 semester hours (7/79).

MOS-81A-001

General Draftsman

81A10

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 81A was discontinued and its functions were incorporated into 81B20, Construction Draftsman, 81C10, Cartographer, and 81E10, Illustrator.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Performs general drafting duties; traces drawings, organizational charts and diagrams, posters, and other drafting works; uses mathematics when applicable; utilizes basic drafting tools, instruments, and materials; lays out drawings to scale, applying dimensions, detail, and conventional symbols; letters free hand or with mechanical guides; receives, stores, and manages supplies and other materials.

Recommendation

In the vocational certificate category, 10 semester hours in basic drafting (12/75).

MOS-81B-001

Construction Draftsman

81B20

81B40

Exhibit Dates: 10/73-9/74.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Prepares work drawings for the construction field. *Skill Level 20:* Prepares orthographic drawings (shape description only); prepares maps and plots plans from surveyor's notes. NOTE: May have progressed to 81B20 from 81A10 (General Draftsman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans, lays out, and completes working drawings for the construction field; supervises 14 or more personnel engaged in the same activities.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction drafting (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 30 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 8 semester hours in construction drafting, 3 in algebra, 3 in trigonometry, 2 in communication skills, and 2 in personnel supervision, for a total of 18 semester hours (2/75).

MOS-81B-002

Construction Draftsman

81B20

Exhibit Dates: 10/74-2/78.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Prepares working drawings for the construction field; prepares orthographic drawings (shape description only); prepares maps and plots plans from surveyor's notes. NOTE: May have progressed to 81B20 from 81A10 (General Draftsman).

Recommendation

In the vocational certificate category, 10 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction drafting (2/75).

MOS-81B-003

Technical Drafting Specialist

81B10

81B20

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Technical Engineering).

Description

Summary: Drafts detailed working plans for construction of bridges, roads, railroads, piers, buildings, and utilities installation. *Skill Level 10:* Assists in performance of construction or design drafting; prepares drawings and plans of miscellaneous structures and mechanical and electrical devices, using standard drafting equipment; plots profiles for construction of roads, railroads and other construction projects from survey notes or contour maps; prepares charts and graphs to portray various data. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel in the performance of their duties; reviews, modifies, and corrects finished drawings to conform to specifications and assists design officer in modification of design of steel, concrete and wood structures.

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction drafting (7/79).

Recommendation, Skill Level 20

In the vocational certificate category, 30 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 8 semester hours in construction drafting, 3 in algebra, 3 in trigonometry, 2 in communications skills, and 2 in personnel supervision, for a total of 18 semester hours (7/79).

MOS-81C-001

Cartographic Specialist (Cartographic Draftsman)

81C20

81C30

81C40

81C50

Exhibit Dates: 10/74-2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Summary: Supervises or performs cartographic drafting activities, compilation or revision of planimetric and topographic maps, or construction of scale models of terrain. *Skill Level 20:* Draws or scribes cultural, topographic, hydrographic, or other features on drawings, transparent overlays, and scribing surfaces for reproduction of maps. NOTE: May have progressed to 81C20 from 81A10 (General Draftsman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; compiles and revises planimetric and topographic maps. *Skill Level 40:* Able to perform the duties required for Skill Level 20 and 30; supervises cartographic drafting, map compiling, or model making activities. NOTE: May have progressed to 81C40 from 81C20, 81C30, 81E20 (Illustrator), or 81Q20 (Terrain Intelligence Analyst). *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, administers, and supervises activities pertaining to the compiling, preparation, and revision of topographic and hydrographic maps from aerial photographs and other data. NOTE: May have progressed to 81C50 from 81C40 or 81Q20 (Terrain Intelligence Analyst).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 12 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 16 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, and 3 in introduction to management, for a total of 19 semester hours (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, 3 in introduction to management, 3 in personnel supervision, and 3 for field experience in management, for a total of 25 semester hours (12/75).

MOS-81C-002

Cartographer

81C10

81C20

81C30

81C40

Exhibit Dates: 3/77-Present.

Career Management Field: 81 (Topographic Engineering), *subfield* 811 (Cartography).

Description

Summary: Supervises or performs cartographic drafting activities, or compiles or revises planometric and topographic maps. *Skill Level 10:* Draws or scribes cultural, topographic, hydrographic, or other features on drawings, transparent overlays and scribing surfaces for reproduction of maps; compiles and revises planometric and topographic maps; constructs mosaics from aerial photographs; constructs map projections and grids; uses photo interpretation methods for delineating aerial photographs; performs field classification of aerial photographs. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; keeps records and requests supplies; makes recommendations to supervisors. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises cartographic laboratory; edits computations, map compilation base, manuscripts, overlays, color proofs, and color separation drawings; makes production recommendation and maintains files; may supervise more than 12 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; determines work priorities; supervises final inspection and editing of maps; plans, coordinates, and administers activities of cartographic laboratory with other units; may supervise more than 30 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical drawing. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, and 3 in aerial photographic interpretation, for a total of 15 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, 3 for field experience in cartography, 3 in aerial photographic interpretation, and credit in human relations on the basis of institutional evaluation for a minimum total of 18 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 for field experience in cartography, 3 for field experience in management, and 3 in human relations, for a total of 24 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 for field experience in cartography, 3 in introduction to management, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 30 semester hours (6/78).

MOS-81E-001

ILLUSTRATOR

81E20

Exhibit Dates: 10/73-2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Illustrates, drafts, and lays out illustrations for posters, graphs, charts, tests, training aids, and for other purposes; interprets basic materials furnished for final illustration; measures model dimensions; appropriately lays out work; makes illustrations with inks, charcoal, oil paints, water colors, pencils, crayons, and pastels, using drafting instruments and other artist materials; selects appropriate materials and instruments and mixes colors; designs, executes, and prepares freehand and mechanical drawings; mounts and retouches photographs and drawings; prints and letters signs; maintains illustration equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical drawing, 2 in commercial art, and 2 in principles of illustration, and additional credit on the basis of institutional evaluation, for a minimum total of 6 semester hours (12/75).

MOS-81E-002

ILLUSTRATOR

81E10

81E20

81E30

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Designs, drafts, and lays out copy for posters, graphs, charts, tests, training aids, and for other purposes; uses creativity to portray specific productions. *Skill Level 10:* Serves as designer; selects oil paints, water colors, inks, charcoal, pencils, and crayons; selects and mixes colors and shades of colors; makes designs with ink, crayon, pastels, drafting instruments, and other artistic materials; prepares mechanical drawings to illustrate equipment and weapons; mounts photographs with electrical press, dry mounting paper, mounting board, and tacking iron; paints and letters signs; interprets blueprints, sketches, photographs, drawings, charts, technical manuals, and graphs; measures dimension of model, and determines proper method of laying out work and most appropriate manner of presentation; designs and executes freehand drawings of persons, scenic views, still life, and cartoons; retouches drawings and photographs to correct faults and to color reproductions; performs preventive maintenance on equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20, supervises lower skill level personnel; reviews work orders and notes; writes, sketches, or gives oral instructions; reviews completed work for artistic quality and technical accuracy.

Recommendation, Skill Levels 10 and 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in graphics design, 2 in calligraphy, 3 in mechanical drawing, 3 in principles of typography, 3 in development of audio-visual aids, and 3 in cartography applications, for a total of 16 semester hours (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in graphic design, 2 in calligraphy, 3 in mechanical drawing, 3 in principles of typography, 3 in development of audio-visual aids, 3 in cartography applications, 3 for field experience in management, 3 in technical illustrations, and credit in human relations on the basis of institutional evaluation, for minimum total of 22 semester hours (5/78).

MOS-81Q-001

TERRAIN INTELLIGENCE ANALYST (TERRAIN ANALYST)

81Q20

Exhibit Dates: 10/73-2/77. (Until 10/74, this MOS was designated 51Q20, Terrain Analyst; effective 3/77, MOS 81Q was discontinued and its functions were incorporated into MOS 81C, Cartographer.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Compiles, analyzes, and disseminates current and accurate data pertaining to a geographical area or region, including natural terrain features, population and industrial centers, transportation networks, and utility systems, for use in mapping, construction, and other operations; interprets conditions of travel and land use; interprets studies and reports as they relate to terrain and manmade features; coordinates and participates in the preparation of technical and special reports and map overlays; applies engineering techniques in the analysis of aerial photographs and other data; knows the principles of map compilation and interpretation; keeps records and files of completed studies; keeps data current through consultation with pertinent government agencies.

Recommendation

In the lower-division baccalaureate/associate degree category, 8 semester hours in land use planning, 6 in aerial photographic interpretation, 3 in geography, 3 in terrain analysis, 3 in cartography, and 1 in geology, for a total of 24 semester hours. In the upper-division baccalaureate category, 8 semester hours in land use planning and 3 in aerial photographic interpretation. In the graduate degree category, 6 semester hours in research techniques in geography (12/75).

MOS-81Z-001

TOPOGRAPHIC ENGINEERING SUPERVISOR

81Z50

Exhibit Dates: 3/77-Present.

Career Management Field: 81 (Topographic Engineering), *subfield* 810 (Topographic Engineering, General).

Description

Summary: Supervises topographic surveying, cartography, and photolithography activities; serves as first sergeant of a company or as a topographic operations sergeant; assists in topographic planning and control activities; assists in determining requirements and providing program and technical supervision of topographic mapping and other military geographic intelligence programs, including geodetic and topographic surveying activities; assists in command supervision and coordination of map reproduction and topographic map supply programs. NOTE: May have progressed to 81Z50 from 81C40, Cartographer, 82D40, Topographic Surveyor, or 83F40, Photolithographer.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in graphic arts, 3 in record keeping, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, and 6 in printing management, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (graphic arts), 3 in industrial management, 3 in plant organization, and 6 for field experience in management, for a total of 15 semester hours (6/78).

MOS-82A-001

RODMAN AND TAPEMAN

81A10

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 82A was discontinued and its functions were incorporated into 82B20, Construction Surveyor, and 82D10, Topographic Surveyor.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Under supervision, assists topographic and construction survey party personnel in making land surveys and establishing reference points; assists survey party chief by removing minor terrain obstacles, carrying equipment, marking reference points and recording readings; aligns and positions stadia, level rods, and other target markers when directed by hand and/or verbal instructions; locates old and new markers; measures linear distance with tapes and angles of slope with hand level; reads verniers of targets; performs preventive maintenance on pertinent equipment.

Recommendation

In the vocational certificate category, 1 semester hour in surveying (12/75).

MOS-82B-001

CONSTRUCTION SURVEYOR

82B20

82B40

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Supervises or establishes relative position of points on earth's surface for use in construction projects. *Skill Level 20:* Reads maps and construction specifications; operates surveying instruments and equipment, such as alidade, plane table, level, transit, and theodolite; employs such instruments as aneroid barometer and compass; records observations and makes minor computations; makes mathematical computations involving use of formulas; determines azimuths and astronomical observations of the sun or polaris; makes measurements and sets appropriate reference points; maintains surveying equipment and instruments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and instructs survey party personnel; responsible for initial study of construction area; assigns and coordinates work and manages its progress; supervises on-the-job training.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic land surveying (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic and advanced land surveying, 3 in introduction to management, and 3 for field experience in management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (12/75).

MOS-82B-002

CONSTRUCTION SURVEYOR

82B10

82B20

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Technical Engineering).

Description

Summary: Performs construction surveys to determine relative positions of points on the ground to provide data for construction layout and earthwork. *Skill Level 10:* Serves as construction surveyor; reads maps and places appropriate reference points for construction layout and earthwork; operates surveying instruments and equipment such as tape, alidade, plane table, level, transit and theodolite; employs such instruments as aneroid barometer and compass; records observations and makes minor computations; maintains and adjusts survey instruments and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; directs survey party and works independently while conducting construction surveys; conducts initial reconnaissance of construction area, interprets construction drawings and briefs survey party; directs use of stadia; establishes centerlines for horizontal curves and spirals, and gradelines for vertical curves; responsibilities include surveys for all features of bridges, buildings, sewer lines, roads, airfields and drainage. Maintains records of survey party work.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic land surveying (7/79).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic and advanced land surveying, and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/79).

MOS-82C-001

ARTILLERY SURVEYOR

82C10

82C20

82C40

Exhibit Dates: 10/73-8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Engages in surveying activities. *Skill Level 10:* Marks survey stations; utilizes range poles and target sets; assists in performance of preventive maintenance on surveying instruments and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10, serves as chief of a surveying party; uses basic algebraic and trigonometric skills; uses tape, level, transit, and theodolite to perform surveys; computes azimuths and distances, coordinates, altimetric and trigonometric heights from field data; makes traverse computations; uses the triangulation method of survey and computations. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises a survey party; reviews survey data.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/75).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in algebra and 1 in trigonometry. In the lower- division baccalaureate/associate degree category, 8 semester hours in surveying, 2 in algebra, and 1 in trigonometry, for a total of 11 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in algebra and 1 in trigonometry. In the lower-division baccalaureate/associate degree category, 8 semester hours in surveying, 2 in algebra, 1 in trigonometry, 3 in personnel supervision, and 3 in communication skills, for a total of 17 semester hours (2/75).

MOS-82C-002

FIELD ARTILLERY SURVEYOR

82C10

82C20

82C30

82C40

Exhibit Dates: 9/76-8/79. (Effective 9/79, MOS 82C was discontinued.)

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Engages in surveying activities. *Skill Level 10:* Determines distance between survey stations; marks survey stations; operates and maintains survey equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; applies knowledge of basic algebra, basic geometry, and trignometric functions and logarithms; computes azimuth and distance, coordinates, altimetric and trigonometric heights, and astronomic azimuths from field data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a survey party; selects starting station and method of survey; reviews survey data for accuracy; supervises maintenance of survey party equipment; instructs in survey procedures and techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates operations of several survey parties; prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos and credit in surveying on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos, 2 in algebra, 1 in trigonometry, and 8 in surveying, for a total of 13 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos, 2 in algebra, 1 in trigonometry, 8 in surveying, 2 in communication skills, 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 22 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos, 2 in algebra, 1 in trigonometry, 8 in surveying, 3 in communication skills, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 25 semester hours (4/77).

MOS-82D-001

TOPOGRAPHIC SURVEYOR

82D20
82D30
82D40
82D50

Exhibit Dates: 10/73-2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Summary: Supervises or conducts and establishes relative position of points on earth's surface to provide control data for map making. *Skill Level 20:* Conducts topographic surveys; interprets maps and aerial photographs; operates surveying instruments and equipment such as alidade, plane tables, level, transit, theodolite, compass, and aneroid barometer; shoots routine azimuth shots on stellar bodies; determines exact location and measurements of points, lines, elevations, areas, and contours of earth's surface; records observations, makes minor computations, and prepares diagrams and map overlays for presentation of survey findings; makes mathematical computations involving logarithms and trigonometric principles and standard topographic survey formulas; consolidates and prepares topographic survey reports; inspects, cleans, lubricates, and adjusts surveying instruments and equipment. NOTE: May have progressed to 82D20 from 82A10 (Rodman and Tapeman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; conducts geodetic surveys; operates, uses, and performs preventive maintenance on topographic surveying instruments capable of first order accuracy; sets up, calibrates, and employs such instruments as Wild T-3 and/or T-4 Theodolites, Bamberg Broken Telescope Transit, precise chronometer, and chronograph or oscillograph in combination with astro amplifier and other timing instruments; prepares for and makes all observations for precise determination of azimuth or geodetic position; observes stars for longitude, latitude, and azimuth determination; interprets and records timing data for topographic computers. NOTE: May have progressed to 82D30 from 82D20, 82E20 (Topographic Computer), or 41B20 (Topographic Instrument Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises topographic surveying activities; studies and learns capabilities and limitations of all types of topographic survey equipment and systems; studies astronomical publications, such as star lists and ephemeris; determines composition and operational procedures and techniques of topographic survey parties; determines application of field survey activities to photogrammetric requirements; utilizes organic topographic stereophotogrammetric instruments; prepares records depicting type of survey, type of station, reference points used, and description of terrain; plans training and instructs subordinate personnel in all phases of topographic surveying; prepares and reviews technical, personnel, and administrative reports. NOTE: May have progressed to 82D40 from 82D20, 82D30, 82E20 (Topographic Computer), or 41B20 (Topographic Instrument Repairman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer in a topographic surveying company; assists in planning, coordinating, and supervising all company activities; advises company commander on all personnel matters; provides subordinate supervisors with instructions; conducts training and inspections. NOTE: May have progressed to 82D50 from 82D40, 82E40 (Topographic Computer), or 82B40 (Construction Surveyor).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, and 3 in engineering computations, for a total of 24 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in engineering computations, and 6 for field experience in surveying, for a total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 15 semester hours for field experience in surveying, 9 semester hours in engineering computations, 3 in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in advanced surveying, 3 in advanced geodetic surveying, 3 in technical writing, 3 in personnel supervision, and 3 in project management, for a total of 60 semester hours (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 23 semester hours for field experience in surveying, 12 in engineering computations, 8 in project management, 5 in project layout, 6 in personnel supervision, 6 in advanced surveying, 3 in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in advanced geodetic surveying, 3 in technical writing, and 3 in introduction to management, for a total of 90 semester hours (12/75).

MOS-82D-002

TOPOGRAPHIC SURVEYOR

82D10
82D20
82D30
82D40

Exhibit Dates: 3/77-Present.

Career Management Field: 81 (Topographic Engineering), *subfield* 812 (Surveying).

Description

Summary: Supervises or conducts surveys to provide control data for map making and supervises or performs topographic or geodetic computations. *Skill Level 10:* Records topographic survey data, operates survey instruments, and performs topographic computations; conducts topographic surveys; interprets maps and aerial photographs; records measurements and other field data; computes horizontal distances from taped, electronic, or stadia measurement; computes angular closures and triangulations; computes differences in elevation from trigonometric, altimetry, and differential leveling; computes azimuths from stellar observations and from grid coordinates; employs planetable with alidade, theodolite, level, microwave, infrared, and baseline taping distance measuring equipment; operates programmable electronic calculator. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs geodetic computation and adjustments, and topographic survey observations to extend horizontal and vertical control; employs theodolite, precise levels, altimeter, lasers; makes field checks; obtains data to calibrate instruments; computes and adjusts second order surveys; computes elevation of tidal bench marks from tidal observations data for secondary stations; determines and writes required numbers and types of condition equation used in least squares adjustments; operates and writes programs for programmable electronic calculation; directs and controls personnel when acting as survey party chief. *Skill Level 30:* Must be able to supervise personnel performing the duties of 82D20 or 41B20 (Topographic Instrument Repair Specialist); performs astronomic observations, computes geographic azimuths to verify topographic surveys, or supervises survey section or computing activities in a survey party; calibrates equipment; performs survey reconnaissance; evaluates field data and results obtained; computes geographic positions to include elevation, from observation derived from triangulations trilateration, traverse and spirit leveling; computes astronomic and laplace azimuth, latitude, and longitude from astronomical observations; computes gravity survey field data and earth tide gravity correction; evaluates and verifies results of all computations; supervises programming of electronic calculators. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises geodetic or topographic surveying party and computing activities of survey operations; plans work schedule; collects relevant data; supervises reconnaissance, plans and arranges for field party support in remote areas; coordinates surveying and computing activities; assigns duties, plans training, and instructs personnel; supervises field survey activities in support of photogrammetric requirements; prepares, reviews, and consolidates technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in surveying, and 3 in engineering computations, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, and 3 in engineering computations, for a total of 15 semester hours (6/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in engineering computations, 3 in data processing, and 6 for field experience in surveying, for a total of 24 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in surveying, 3 in engineering computations, and 3 in technical writing, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in personnel supervision, 6 in engineering computations, 9 for field experience in surveying, 3 in data processing, and 3 in human relations, for a total of 36 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in surveying, 3 in engineering computations, 3 in technical writing, and 3 in record keeping, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in technical writing, 3 in personnel supervision, 9 in engineering computations, 12 for field experience in surveying, 3 in human relations, 3 in introduction to management, and 3 in data processing, for a total of 48 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 5 in project layout (6/78).

MOS-82E-001

Topographic Computer

82E20
82E30
82E40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 82E was discontinued and its functions were incorporated into MOS 82D, Topographic Surveyor.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Summary: Supervises or performs geodetic or topographic computations. *Skill Level 20:* Performs topographic computations, such as determining exact positions of points and distances between points under various map construction systems, transforming geographic coordinates to linear distances, and computing taped and stadia traverse and baseline measurements using natural and log functions of angles; studies assembled data compiled from surveyor's notes; determines appropriate algebraic formula and method of computation to be used; makes projection, grid, and triangulation computations by application of geometry to notes from astrological observations; performs fundamental computations and adjustments for third and lower order triangulation, traverse, vertical control, and special surveying schemes; performs fundamental computations involved in construction of military and geographic grids for maps; performs computations required for third and lower order astronomic azimuth and position observations, and solar observations; performs conversion computations for grid and geographic coordinates. NOTE: May have progressed to 82E20 from 82A10 (Rodman and Tapeman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as geodetic computer; measures time, records time values by numerical and graphical means, and employs time data in making first order computations; computes azimuth and length of long lines (over 250 miles), and computes transformation of coordinates from one grid zone to another adjacent or more distant zone; performs LaPlace azimuth computations in addition to all common astronomical computations involving application of spherical trigonometry. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as chief topographic computer or as intelligence sergeant; coordinates surveying and computing activities, and performs related administrative duties; collects, prepares, and distributes material and data on intelligence matters, with special emphasis on intelligence matters peculiar to topographic operations; assigns work to subordinate personnel and conducts briefings.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in statistics, 3 in surveying, 3 in geodetic surveying, and 3 in engineering computations, for a total of 24 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in trigonometry, 3 in spherical geometry, 3 in statistics, 3 in surveying, 3 in geodetic surveying, 3 in engineering computations, and 6 for field experience in engineering, for a total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 15 semester hours for field experience in engineering, 9 in engineering computations, 3 in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in statistics, 3 in surveying, 3 in geodetic surveying, 3 in advanced surveying, 3 in advanced geodetic surveying, 3 in technical writing, 3 in personnel supervision, and 3 in project management, for a total of 60 semester hours (12/75).

MOS-83A-001

Printer's Apprentice

83A10

Exhibit Dates: 10/73-9/74. (Effective 10/74, MOS 83A was discontinued and its functions were incorporated into MOS 83F, Offset Pressman.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Assists in printing operations; installs and removes keybands and paper rollers and threads paper ribbon to monotype machines; operates and maintains multilith, bookbinding, photocopy, and photostat machines; sets up hand and machine cast type and arranges type cuts, spacers, quoins, and liners within chase; assembles and collates materials; cleans ink plates and press rollers; cuts and trims materials to required shapes and sizes; adjusts and sets paper cutting, perforating, drilling, punching, stitching, and folding machines; checks all materials printed for neatness and accuracy.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation (2/75).

MOS-83D-001

Process Photographer

83D20

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 83D was discontinued and its functions were incorporated into MOS 83E, Photo and Layout Specialist.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Operates a process camera and develops film to produce line, half tone, and continuous tone negatives for offset printing; demonstrates understanding of darkroom chemistry, camera techniques, use of camera controls, proper settings of lens, use of filters, and selection of films. NOTE: May have progressed to 83D20 from 83A10 (Printer's Apprentice), or 83F10 (Offset Pressman).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in process camera operation and 6 for field experience in graphic arts (5/76).

MOS-83E-001

Platemaker

83E20

Exhibit Dates: 10/73-2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Prepares and processes lithographic plates for use in offset printing, performing as a journeyman platemaker; knows procedures for single and multiple layouts, bookwork double burns, multiple-color systems, and register systems; works with presensitized and wipe-on plates. NOTE: May have progressed to 83E20 from 83A10 (Printer's Apprentice), or 83F10 (Offset Pressman).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in platemaking for offset printing and 3 in stripping for offset printing (5/76).

MOS-83E-002

Photo and Layout Specialist

83E10
83E20

Exhibit Dates: 3/77–Present.

Career Management Field: 81 (Topographic Engineering), *subfield* 813 (Photolithographer).

Description

Summary: Operates lithographic copy cameras and prepares lithographic negatives and positives, flats, contact prints, color proofs, scribe and peel coats, and offset press plates. *Skill Level 10:* Operates copy cameras, film processors, and densitometers to produce negatives from camera-ready copy; selects correct materials, exposures, and chemicals; uses developer and fixer solutions; washes and dries negatives; operates platemaking equipment; produces rectified aerial prints; performs operator maintenance on photographic and platemaking equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; makes quality checks; performs detailed topographic process photography and lithographic stripping and platemaking.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic photography and 3 in platemaking (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic photography, 3 in platemaking, 3 in stripping for offset printing, and 3 for field experience in process photography, for a total of 12 semester hours (6/78).

MOS-83F-001

Offset Pressman

83F10
83F20
83F40

Exhibit Dates: 10/74–2/77.

Career Management Field: 82 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Summary: Operates duplicating and offset presses and supervises the operation of a pressroom. *Skill Level 10:* As a pressroom helper, assists in printing operations, including performing preventive maintenance on and operating multilith and photocopying equipment, storing suppies, loading and stacking paper, cleaning work area and equipment. *Skill Level 20:* Operates offset press to print multicolor work on light or heavy paper stock, using feeder, delivery, dampening, and inking assemblies; operates folding machines (16-page unit) and stitching machines; observes safety precautions and trains helpers. *Skill Level 40:* Able to perform the duties required for Skill Level 20; as a pressroom foreman, supervises multilith and offset press operators and bindery activities; schedules work and evaluates supply needs; coordinates pressroom printing and bindery activities; supervises equipment maintenance; explains and demonstrates the operation of lithograph and multilith machines and bindery techniques.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (5/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation, 6 for field experience in graphic arts, 3 in platemaking, and 2 in ink and color, for a total of 17 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation, 6 for field experience in graphic arts, 3 in platemaking, 2 in ink and color, 3 in human relations, 3 in personnel supervision, and 3 in printing management for a total of 26 semester hours (5/76).

MOS-83F-002

Photolithographer

83F10
83F20
83F30
83F40

Exhibit Dates: 3/77–Present.

Career Management Field: 81 (Topographic Engineering), *subfield* 813 (Photolithographer).

Description

Summary: Operates bindery equipment, offset presses, and duplicating equipment and supervises photolithographic activities. *Skill Level 10:* Performs bindery operations and operates offset presses and duplicators to include servicing, adjusting, mixing of etch solutions, storing supplies, and cleaning work area and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; makes quality checks, detects equipment malfunctions, and demonstrates operation and maintenance procedures. *Skill Level 30:* Must be able to supervise personnel performing the duties of 83F20, 41K20 (Reproduction Equipment Repair Specialist), and 83E20 (Photo and Layout Specialist); supervises lithographic photography and platemaking, offset press and duplicating, and bindery operations in a small lithographic activity; may supervise more than 19 persons. NOTE: May have progressed to 83F30 from 83F20, 83E20, Photo and Layout Specialist, or 41K20, Reproduction Equipment Repair Specialist. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large photolithographic activity; organizes and controls work flow; prepares administrative and operational reports, and determines work and supply requirements; may supervise more than 30 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines, and 3 for field experience in bindery operations (6/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines, 3 for field experience in bindery operations, and 3 for field experience in reproduction operations, for a total of 9 semester hours (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in operation and maintenance of duplication and reproduction machines, 3 for field experience in bindery operations, 3 for field experience in reproduction operations, 3 in basic photography, 3 in platemaking, and 3 in stripping for offset printing, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines, 3 for field experience in bindery operations, 3 for field experience in reproduction operations, 3 in basic photography, 3 in platemaking, 3 in stripping for offset printing, 3 in human relations, and 3 in personnel supervision, for a total of 24 semester hours (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines, 3 for field experience in bindery operations, 3 for field experience in reproduction operations, 3 in basic photography, 3 in platemaking, 3 in stripping for offset printing, 3 in human relations, 3 in personnel supervision, 3 in technical report writing, and 3 for field experience in management, for a total of 30 semester hours (6/78).

MOS-83Z-001

Photolithography Chief

83Z40
83Z50

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 83Z was discontinued and its functions were incorporated into 81Z50, Topographic Engineering Supervisor, and into 83F30 and 83F40, Photolithographer.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Summary: Supervises process photography, photocopy, platemaking, and offset press activities. *Skill Level 40:* Able to perform the duties required for 83D20 (Process Photographer), 83E20 (Platemaker), or 83F20 (Offset Pressman); serving as the production manager of a printing plant, supervises photolithography activities; sets work priorities; schedules, routes, and dispatches materials; implements quality control and safety procedures; makes oral and written administrative reports on personnel and activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as first sergeant of a company, supervising as many as 200 persons; assists in planning, coordinating, and supervising all company activities; advises superiors on all personnel matters; holds meetings to disseminate instructions and information to subordinate supervisors; supervises training activities. NOTE: May have progressed to 83Z50 from 83Z40 or 83F40 (Offset Pressman).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation, 6 in process camera operation, 6 for field experience in graphic arts, 3 in platemaking, 3 in stripping for offset plates, 3 in ink and color, 3 in record keeping, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, and 6 in printing management, for a total of 45 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (graphic arts) (5/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (graphic arts), 3 in industrial management, 3 in plant organization, and 6 for field experience in management, for a total of 15 semester hours (5/76).

MOS-84B-001

STILL PHOTOGRAPHER

84B20
84B40

Exhibit Dates: 10/73-2/77.

Career Management Field: 72 (Communications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Summary: Takes still photographs for news releases, publications, and identification, and for medical training, historical, and scenic purposes; performs preventive maintenance on photographic equipment; takes photos from moving and fixed positions; uses aerial cameras. *Skill Level 20:* Arranges subject matter for proper photographic emphasis; selects appropriate camera, film, and accessory equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20, supervises still photographers and motion picture cameramen; determines the quantity, types, and technical details of photographs to be taken; establishes work priorities and schedules; critiques completed work, advising on technical and artistic deficiencies; corrects faulty work practices of subordinates by instruction and demonstration of proper techniques; prepares technical and administrative reports. NOTE: May have progressed to 84B40 from 84B20 or 84C20 (Motion Picture Photographer).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in still photography (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in still photography. In the lower-division baccalaureate/associate degree category, 9 semester hours in still photography, 3 in personnel management, and 3 in technical writing, for a total of 15 semester hours (2/75).

MOS-84B-002

STILL PHOTOGRAPHIC SPECIALIST

84B10
84B20
84B30
84B40

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Takes ground and aerial still photographs; develops black and white and color film. *Skill Level 10:* Takes still photographs and processes prints in black and white and color with single-lens reflex, twin-lens reflex, and large formate cameras; takes photos for news releases, publications, identification, medical, historical, and other military purposes; performs preventive maintenance on equipment; understands proper photographic composition and is able to select the appropriate equipment, film, and accessories to obtain the desired results; processes motion picture film. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and supervises still photographers and motion picture cameramen; establishes work priorities and schedules; critiques completed work and advises on technical and artistic deficiencies; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises from 10-24 lower skill level personnel; supervises the operation of a photographic laboratory; provides technical guidance to lower skill level personnel; requisitions supplies; prepares technical and administrative reports and records. NOTE: May have progressed to 84B30 from 84B20 or 84C20 (Motion Picture Specialist). *Skill Level 40:* Able to supervise personnel performing the duties of 84B30 or 81E30 (Illustrator); serves as a mid-level manager, supervising from 12 to over 30 personnel in a photographic laboratory; assists superiors on personnel and operational matters; conducts on-the-job training and inspection of facilities. NOTE: May have progressed to 84B40 from 84B30 or 81E30 (Illustrator).

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in still photography, 3 in black and white darkroom procedures, 3 in color darkroom procedures, and 3 in motion picture processing, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in still photography, 3 in black and white darkroom procedures, 3 in color darkroom procedures, and 3 in motion picture processing, for a total of 18 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 9 semester hours in still photography, 4 in black and white darkroom procedures, 4 in color darkroom procedures, 3 in motion picture processing, and 3 in human relations, for a total of 23 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 9 semester hours in still photography, 6 in black and white darkroom procedures, 6 in color darkroom procedures, 3 in motion picture processing, 3 in human relations, 3 in personnel supervision, and 3 for technical electives, for a total of 33 semester hours (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 9 semester hours in still photography, 6 in black and white darkroom procedures, 6 in color darkroom procedures, 3 in motion picture processing, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 3 for technical electives, for a total of 36 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education, 3 for field experience in management, and 3 in personnel management, for a total of 9 semester hours (5/78).

MOS-84C-001

MOTION PICTURE PHOTOGRAPHER

84C20

Exhibit Dates: 10/73-2/77.

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Takes aerial photographs and motion pictures; performs preventive maintenance on photographic equipment; operates equipment and coordinates the shooting of documentary, training, or newsreel films.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in film production, 3 in basic photography, and 3 in cinematic techniques, for a total of 12 semester hours (5/76).

MOS-84C-002

MOTION PICTURE SPECIALIST

84C10
84C20

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Takes aerial photographs and motion pictures; operates and performs preventive maintenance on motion picture sound and magnetic tape recording equipment. *Skill Level 10:* Plans, sets up, and operates movie equipment in a cinematography production (ground or aerial), under normal or adverse conditions; determines sound requirements and operates audio equipment; coordinates the shooting of documentary, training, or newsreel films. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel;

keeps production, supply, and maintenance records.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic cinematography, 3 in advanced cinematography, 3 in cinematic techniques, 3 in audio techniques, and 3 in audio recording, for a total of 15 semester hours (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic cinematography, 3 in advanced cinematography, 3 in cinematic techniques, 3 in audio techniques, 3 in audio recording, and 3 in record keeping, for a total of 18 semester hours (5/78).

MOS-84D-001

Audio Specialist

84D20

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 84D was discontinued and its functions were incorporated into MOS 84C, Motion Picture Specialist, and MOS 84F, Audio/TV Specialist.)

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Performs preventive and routine maintenance on audio equipment utilized in radio, television, and motion picture productions; determines the sound needs for a given production situation; sets up and operates the necessary audio equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 4 semester hours in sound techniques, 3 in sound recording, and 3 in radio production, for a total of 10 semester hours (5/76).

MOS-84E-001

TV Cameraman

84E20

84E40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 84E was discontinued and its functions were incorporated into MOS 84F, Audio/TV Specialist.)

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Skill Level 20: Operates and performs preventive maintenance on television cameras; sets up camera and associated equipment; knows basic video techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a senior television cameraman; supervises 3 to 6 television cameramen; coordinates work with other television specialists and directorial personnel; instructs camera crew in proper camera techniques; evaluates technical, artistic, and mechanical composition of camera work.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in studio techniques and 6 for a television workshop. (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in studio techniques, 6 for a television workshop, and 3 in human relations, for a total of 12 semester hours (5/76).

MOS-84F-001

TV Production Specialist

84F20

84F40

Exhibit Dates: 10/73-2/77.

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Summary: Serves as producer or director in the preparation and production of live and recorded television presentations. *Skill Level 20:* Is responsible for preproduction planning, preparation, and coordination in the production of television programs, including scripting, rewriting, stage and lighting design, and collection of production materials. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises production personnel engaged in stage property, makeup, and other production and related technical activities; conducts rehearsals, telecasts, and recording sessions; views recordings to evaluate quality, assists in editing; prepares detailed reports on production activities. NOTE: May have progressed to 84F40 from 84F20, 84E40 (TV Cameraman), or 84D20 (Audio Specialist).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in television production, 3 in writing for instructional television, 3 in set design and lighting for television, and 3 for a television workshop, for a total of 15 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in television production, 3 in writing for instructional television, 3 in set design and lighting for television, 3 for a television workshop, 3 in television directing, 3 in human relations, and 3 in personnel supervision, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in advanced television production, and 3 in advanced television directing, for a total of 9 semester hours (5/76).

MOS-84F-002

Audio/TV Specialist

84F10

84F20

84F30

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Serves as producer in the preparation and production of live and recorded television presentations; operates and performs maintenance on equipment. *Skill Level 10:* Is responsible for preproduction planning, preparation, and coordination in the production of television programs, including scripting, rewriting, stage and lighting design, and collection of production materials. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises production personnel engaged in stage property, makeup, and other production and related technical activities; conducts rehearsals, telecasts, and recording sessions; reviews recordings to evaluate quality, assists in editing; prepares detailed reports on production activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in writing for television, 3 in set design/lighting for television, 3 in television techniques, 3 in audio techniques, 3 in recording techniques, and 3 in technical aspects of broadcasting, for a total of 18 semester hours (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in writing for television, 3 in set design/lighting for television, 3 in television techniques, 3 in audio techniques, 3 in recording techniques, 3 in technical aspects of broadcasting, and 3 for field experience in broadcasting, for a total of 21 semester hours (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in writing for television, 3 in set design/lighting for television, 3 in television techniques, 3 in audio techniques, 3 in recording techniques, 3 in technical aspects of broadcasting, 3 in human relations, 3 for field experience in broadcasting, 3 in television production, 3 in personnel supervision, and 3 in broadcast management, for a total of 33 semester hours. In the upper-division baccalaureate category, 3 semester hours in advanced television production, and 3 in advanced television directing (5/78).

MOS-84G-001

Photographic Laboratory Specialist

84G10

84G20

84G40

84G50

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 84G was discontinued and its functions were incorporated into MOS 84B, Still Photographic Specialist, and MOS 84Z, Public Affairs/Audio-Visual Chief.)

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Summary: Develops black and white and color film and does contact and projection printing. *Skill Level 10:* Serves as a photographic laboratory helper-trainee, assisting Skill Level 20 personnel in the development of film by setting up and cleaning equipment, monitoring solution temperature, and handling film as instructed under close supervision. *Skill Level 20:* Processes black and white and color film, using a knowledge of photo-chemistry preparation, negative reading, paper selection, and cataloguing of negatives; processes motion picture film. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the operation of a photographic laboratory consisting of 5 to 25 subordinate photographic laboratory specialists; prepares work schedules and assigns laboratory tasks on a rotation basis to assure that subordinates obtain experience in all phases of photographic processing; evaluates work techniques, advises on technical problems, and conducts on-the-job training; requisitions supplies; prepares technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager, serving as first sergeant of a company; assists in planning, coordinating, and supervising all activities for a group of approximately 200 enlisted personnel; advises superiors on all personnel and operations matters; directs administrative activities; holds meetings with subordinate noncommissioned officers to provide them instructions and guidance; directs training; makes inspections.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in black and white processing and 3 in color processing. In the lower-division baccalaureate/associate degree category, 3 semester hours in black and white processing, 3 in color processing, 3 in advanced color processing, 3 in darkroom procedures, and 3 in motion picture processing, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in color processing techniques and 3 for field experience in photography (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in black and white processing and 3 in color processing. In the lower-division baccalaureate/associate degree category, 3 semester hours in black and white processing, 3 in color processing, 3 in advanced color processing, 3 in darkroom procedures, 3 in motion picture processing, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 6 for technical electives, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours in color processing techniques, 6 for field experience in photography, and 3 in motion picture editing, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in color processing techniques, 6 for field experience in photography, 3 in motion picture editing, 3 in introduction to management, 3 for field experience in management, and 3 in industrial arts education (photography), for a total of 21 semester hours (6/76).

MOS-84T-001

TV/Radio Broadcast Operations Chief

84T40

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Supervises technical operations, production activities, and equipment maintenance; plans, directs, and participates in surveys for site locations of radio and TV stations, rebroadcasting, distribution, or relay systems; plans manpower and equipment requirements; plans, directs, and conducts preproduction conferences with proponent agency, staff, and technical advisory personnel; provides TV production advice; prepares technical and administrative reports. NOTE: May have progressed to 84T40 from 84F30, Audio/TV Specialist or 26T30, Radio/TV Systems Technician.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast systems design, 3 in technical writing, and 3 in program development, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 6 in broadcast management, 6 for field experience in management, and additional credit in broadcast management, broadcast production, directing, and technical aspects of broadcasting on the basis of institutional evaluation, for a minimum total of 15 semester hours (5/78).

MOS-84Z-001

Public Affairs/Audio-Visual Chief

84Z50

Exhibit Dates: 3/77-Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Supervises photographic operations, television equipment repair, radio broadcasting, Army command and public affairs programs, and television production; supervises, coordinates, and provides technical assistance in the operation of public affairs and audio-visual activities; determines equipment and personnel requirements for an activity; serves as liaison among staff, maintenance, and operating personnel; prepares administrative and technical reports; assigns duties. NOTE: May have progressed to 84Z50 from 71Q40, Journalist, 71R40, Broadcast Journalist, 84B40, Still Photographic Specialist, or 84T40, TV/Radio Broadcast Operations Chief.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing. In the upper-division baccalaureate category, 3 semester hours in human relations, 3 for field experience in management, 3 in personnel management, 3 in public relations, 3 in broadcast management, 3 in industrial management, and 3 in industrial relations, for a minimum total of 21 semester hours; and, *if the duty assignment was broadcast supervisor,* 3 additional semester hours in broadcast management, for a total of 24 semester hours; *if the duty assignment was public affairs supervisor,* 3 semester hours in public management, for a total of 24 semester hours (5/78).

MOS-91A-001

Medical Corpsman

91A10

Exhibit Dates: 10/73-9/74. (Effective 10/74, MOS 91A was discontinued and its functions were incorporated into 91B10, Medical Specialist.)

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Performs basic medical care and treatment; assists in setting up and moving emergency and temporary medical care facilities; performs duties related to emergency care and transportation of patients; performs general bedside nursing activities and procedures, including patient hygiene, collection and labeling of specimens, measurement and recording of patient vital signs, administration of treatments and simple medications as directed, and supervised physical and occupational therapeutic functions; assists in surgical procedures under supervision.

Recommendation

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 7 semester hours in fundamentals of nursing, 4 in emergency nursing procedures, 1 in communicable disease nursing, 1 in health science, and 1 in surgical nursing procedures, for a total of 14 semester hours (2/75).

MOS-91B-001

Medical Specialist

91B10

91B20

91B40

Exhibit Dates: 10/74-8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises dispensary or field medical facilities; administers emergency treatment independently to battlefield casualties; assists with inpatient and outpatient care and treatment. *Skill Level 10:* Administers emergency treatment in the field; assists in transporting patients to medical facilities; performs general bedside nursing aide activities and procedures, including patient hygiene, collection and labeling of specimens, and measurement and recording of patient vital signs; performs field sanitation procedures, including water treatment and waste disposal. *Skill Level 20:* Able to perform the duties required for Skill Level 10; administers medications to relieve pain, prevent infection, or treat patients in shock; administers plasma, other blood derivatives, and vaccines; carries out medical asepsis, including disposal of infectious materials and wastes and decontamination of communicable disease area; assists physician in performing routine diagnostic tests, administering immunizations, and performing minor surgical procedures; sets up medical equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises paraprofessional medical service activities in fixed and tactical facilities; plans and organizes work schedules; assigns duties; instructs subordinate personnel in proper work techniques and procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports; manages dispensaries; assists in supervising the setting up of medical units.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 2 in first aid, and 1 in environmental health, for a total of 6 semester hours (3/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 2 in first aid, 2 in environmental health, 1 in administration of medications, 1 in surgical nursing procedures, and 1 in communicable disease nursing, for a total of 10 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in patient care administration, 3 in personnel supervision, 2 in first aid, 2 in environmental health, 1 in administration of medications, 1 in surgical nursing procedures, and 1 in communicable disease nursing, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was chief dispensary NCO/detachment sergeant at pay grade E-7,* 3 semester hours for field experience in management (3/76).

MOS-91B-002

Medical Specialist

91B10
91B20
91B30
91B40
91B50

Exhibit Dates: 9/76-Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises dispensary or field medical facilities; administers emergency medical treatment to battlefield casualties; assists with inpatient and outpatient care and treatment; assists with technical and administrative management of medical treatment facilities. *Skill Level 10:* Administers emergency treatment in the field; assists in transporting patients to medical facilities; performs general bedside nursing aide activities and procedures, including patient hygiene, collection and labeling of specimens, and measurement and recording of patient vital signs; performs field sanitation procedures, including water treatment and waste disposal. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; manages the care and transportation of casualties until admitted to a medical facility; screens patients during sick call; assists physicians in patient care and minor surgical procedures; reads and interprets medical records, patient charts, and diagnostic reports and makes entries as required. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises paraprofessional medical service activities in fixed and temporary facilities; plans and organizes work schedules; instructs subordinate personnel in first aid and patient care procedures; administers medications; prepares and conducts training programs; prepares technical and patient reports; coordinates activities of dispensary or clinic with other medical facility activities; maintains supply levels; supervises setting up of unit equipment and shelters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises paraprofessional medical service activities in large fixed and mobile treatment facilities; coordinates activities of wards, clinics, and combined medical care facilities; maintains intelligence information and records; supervises paraprofessional medical field activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer of staff sections, hospitals, other medical facilities, or service teams; serves on special boards and councils incident to medical service activities; supervises general administrative functions in a medical or treatment facility; supervises functional activities within the Army medical department or multifunctional medical staff activities; assists command surgeon in technical supervision of subordinate medical activities; evaluates personnel and the operational effectiveness of medical facilities; advises superiors on administrative medical matters; keeps official records and patient files; establishes reports, control systems; prepares periodic and special reports concerning assigned personnel, patients, and medical care and treatment; makes recommendations for improving working procedures and conditions; evaluates training programs and requirements; determines requirements and adequacy of medical service supporting elements such as ambulance, supply, and transportation. NOTE: May have progressed to 91B50 from 91B40, 91D40 (Operating Room Specialist), 91F40 (Psychiatric Specialist), 91G40 (Behavioral Science Specialist), 91H40 (Orthopedic Specialist), 91J40 (Physical Therapy Specialist), 91L40 (Occupational Therapy Specialist), 91N40 (Cardiac Specialist), 91P40 (X-ray Specialist), 91Q40 (Pharmacy Specialist), 91U40 (Ear, Nose, and Throat Specialist), 91V40 (Respiratory Specialist), 91W40 (Nuclear Medicine Specialist), 91Y40 (Eye Specialist), or 42C40 (Orthotic Specialist).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, and 1 in environmental health, for a total of 7 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, and 3 for clinical experience, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, 3 for clinical experience, 1 in administration of medication, 1 in surgical nursing, and 1 in communicable disease nursing, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, 3 for clinical experience, 3 in personnel supervision, 1 in administration of medication, 1 in surgical nursing, and 1 in communicable disease nursing, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, 3 for clinical experience, 3 in personnel supervision, 1 in administration of medication, 1 in surgical nursing, 1 in communicable disease nursing, 9 in administration or management, 6 in office management, 6 in introductory medical records administration, 6 for an internship in medical administration, and 3 in technical report writing, for a total of 48 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration, 3 in management of medical facilities, 3 in advanced medical records administration, 3 in management problems, 6 for field experience in management or for an internship in management of medical facilities, and 3 in personnel management, and additional credit in administration, management, medical records administration, management of medical facilities, and for an internship in medical administration on the basis of institutional evaluation, for a minimum total of 21 semester hours (6/77).

MOS-91C-001

Clinical Specialist

91C20
91C40

Exhibit Dates: 10/73-8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Applies nursing care principles, procedures, and techniques in care and treatment of patients, normally under the general supervision of a registered nurse or physician. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); applies nursing care procedures in caring for and treating acutely, seriously, and chronically ill patients; observes, detects, reports, and records objective and subjective symptoms using correct terminology; accurately calculates, prepares, and dispenses the prescribed dosages of medication, administering them by mouth, intradermal, subcutaneous, and intromuscular injections, and observing and recording their effects; administers parenteral fluids and blood derivatives; performs catheterizations and bladder irrigations and instillations; obtains specimens from patients and records results of diagnostic test and treatment procedures; performs and records pre-operative preparations and post-operative care and observations; assists with prenatal, natal, postnatal, newborn, and pediatric care; performs or assists physician with diagnostic tests, therapeutic procedures, sterile procedures, blood transfusions, removal of sutures, and similar procedures under both hospital and field conditions; treats common disease and injuries and performs more technical life-saving treatment procedures in the absence of a physician or registered nurse; instructs patients in good health practices. *Skill Level 40:* Able to perform the duties required for Skill Level 20; applies techniques and principles of nursing management; knows patient admission, transfer, and discharge procedures; reads and interprets medical records, patients' charts, and diagnostic reports, and makes entries, as required; requisitions, stores, safeguards, and issues supplies; inspects medical facilities to insure comfortable, orderly, clean, and safe environment for patients; assists physicians and registered nurses in conducting in-service training programs; supervises other enlisted personnel in providing health care.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 12 semester hours for clincial experience in nursing, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 2 in theory and practice of patient care, 2 in introduction to pharmacology, 2 in administration of medications, 1 in psychiatric nursing, 1 in nutrition, and 1 in preventive medicine, for a total of 36 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical experience in nursing, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in team leadership, 3 in patient care administration, 2 in theory and practice of patient care, 2 in introduction to pharmacology, 2 in administration of medications, 1 in psychiatric nursing, 1 in nutrition, and 1 in preventive medicine, for a total of 42 semester hours. In the upper-division baccalaureate category, *if the duty assignment was chief wardmaster,* 3 semester hours for field experience in medical facility management (3/76).

MOS-91C-002

PATIENT CARE SPECIALIST
(CLINICAL SPECIALIST)

91C10
91C20
91C30
91C40
91C50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Applies nursing care principles, procedures, and techniques in care and treatment of patients, normally under the general supervision of a registered nurse or physician. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); applies nursing care procedures in caring for and treating acutely, seriously, and chronically ill patients; observes, detects, reports, and records objective and subjective symptoms using correct terminology; accurately calculates, prepares, and dispenses the prescribed dosages of medication, administering them by mouth, intradermal, subcutaneous, and intramuscular injections, and observing and recording their effects; administers parenteral fluids and blood derivatives; performs catheterizations and bladder irrigations and instillations; obtains specimens from patients and records results of diagnostic test and treatment procedures; performs and records pre-operative preparations and post-operative care and observations; assists with prenatal, natal, postnatal, newborn, and pediatric care; performs or assists physician with diagnostic tests, therapeutic procedures, sterile procedures, blood transfusions, removal of sutures, and similar procedures under both hospital and field conditions; treats common disease and injuries and performs more technical life-saving treatment procedures in the absence of a physician or registered nurse; instructs patients in good health practices. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with planning and providing emergency medical treatment; supervises operational maintenance program of assigned equipment; instructs in first aid procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; requisitions, stores, and issues supples; inspects medical facilities; organizes work schedules, assigns duties, and instructs subordinates in work techniques and procedures; evaluates and counsels subordinate personnel; coordinates activities of duty area with other elements of the medical facility; prepares technical and administrative reports; assists with in-service training programs and with ward management. *Skill Level 50:* Able to perform the duties required for Skill Level 40; advises and assists professional staff in personnel, supply, fiscal, technical, and administrative matters; develops, implements, and evaluates training programs; establishes stock levels for supplies and equipment; establishes work priorities, distributes workload, and assigns personnel; compiles management data; inspects organizational activities, observes discrepancies, and takes corrective action.

Recommendation, Skill Levels 10 and 20

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, and 1 in psychiatric nursing, for a total of 37 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Levels 10 and 20. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 3 in human relations, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, and 1 in psychiatric nursing, for a total of 40 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, and 1 in psychiatric nursing, for a total of 46 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration and 3 in medical facilities management (6/77).

MOS-91D-001

OPERATING ROOM SPECIALIST

91D20
91D40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Prepares the patient and the operating room suite for surgical procedures, assists during surgery as a member of the surgical team, and prepares and issues sterile medical supplies and equipment. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); performs duties under supervision and with assistance; prepares patient for surgery by shaving and cleansing operative field; checks that extraneous articles such as dentures, jewelry, and prostheses have been removed from patient; transports patient and assists with positioning patient on operating table; performs final skin preparation and surgical draping of patient; scrubs and dons masks, cap, gown, and gloves; assists surgeon, anticipating need for, and passing, instruments and other items and retracting tissue and cutting sutures as directed; assists nurse with accounting of items used during surgery; collects, cares for, labels, and logs in specimens; applies dressings and simple casts; receives, sorts, inventories, decontaminates, cleans, examines, and sterilizes medical and surgical items; stamps, stores, and issues sterilized items and inspects for outdate; loads and operates washer-sterilizers, sterilizers, and ethyline aerators; tests samples from distilling apparatus for purity; prepares and sterilizes distilled water and normal saline for irrigation; reports defective material to supervisor; cleans and maintains work area. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists in managing operating room suite or central material section; plans and organizes work activities; inspects work area for physical and environmental safety; instructs Skill Level 20 personnel in techniques and procedures; serves as technical clinical consultant, administrative advisor, and coordinator to operating room, central material personnel, and other elements of medical treatment facility; conducts enlisted in-service programs to present, explain, plan, and discuss changes in clinical practices, new technical equipment, and changes in personnel policies; supervises procedures enabling units to function in toxic environments; keeps records; prepares reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), and 8 for a practicum in operating room techniques and procedures, for a total of 14 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), 8 for a practicum in operating room techniques and procedures, 3 in principles and practices of management and supervision, for a minimum total of 17 semester hours; *if the duty assignment was chief operating room specialist or chief central materiel specialist,* 3 additional semester hours for field experience in management, for a total of 20 semester hours (3/76).

MOS-91D-002

Operating Room Specialist

91D10
91D20
91D30
91D40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Under the supervision of a registered nurse, supervises or assists in preparation and issue of sterile medical supplies and special equipment or prepares patient and operating suite for surgical procedures and assists during surgery. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision, prepares and issues central material supplies and equipment, including sterile and nonsterile solutions, surgical packs, and instruments; performs operating room duties, including transporting, positioning, draping, and skin preparation of patient; circulates and/or scrubs to assist in minor operative procedures; collects and maintains records of specimens; maintains a record of items and inventories items after surgery is performed; applies dressings. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in supervision, guidance, and training of subordinate personnel; maintains and operates highly technical surgical equipment; assists in surgical procedures; prepares tissue exam and culture slips; maintains emergency equipment; assists with cardiopulmonary resuscitation; inspects operating room to insure a clean, safe, and organized environment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; manages central material service; supervises maintenance of operating room equipment; supervises the requisitioning, storing, and issuing of supplies; manages the operating room suite, including the assignment of personnel; supervises, trains, and evaluates subordinate personnel; establishes work priorities; organizes work schedules; assigns duties; determines stock level of supplies and equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; administers central material service in large hospitals; supervises subordinate personnel and activities of central material service and operating rooms; advises and assists professional staff in clinical, fiscal, technical, and administrative matters; coordinates the activities of the operating room and central material service with other elements of the medical treatment facility; compiles and evaluates management data and personnel requirements.

Recommendation, Skill Levels 10 and 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), and 8 for a practicum in operating room techniques and procedures, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), 3 in personnel supervision, and 8 for a practicum in operating room techniques and procedures, for a total of 17 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), 3 in personnel supervision, 3 for field experience in management, and 8 for a practicum in operating room techniques and procedures, for a total of 20 semester hours. In the upper-division baccalaureate category, credit in patient care administration and health facility management on the basis of institutional evaluation (6/77).

MOS-91E-001

Dental Specialist

91E20
91E30
91E40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Performs technical and administrative tasks in assisting a dentist in the prevention, examination, care, and treatment of disease of the teeth and oral region. *Skill Level 20:* Takes dental x-rays or assists a dentist in patient dental care and treatment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; works as a chairside assistant and performs oral prophylaxis. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in the management of a dental office; performs all duties of chairside assisting and basic oral prophylaxis.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dental science, 6 in chairside assisting and x-ray, 3 in dental materials, 1 in introduction to dental auxiliaries, and 1 in first aid, for a total of 17 semester hours (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dental science, 6 in chairside assisting and x-ray, 3 in basic dental hygiene, 3 in dental materials, 1 in introduction to dental auxiliaries, and 1 in first aid, for a total of 20 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dental science, 6 in chairside assisting and x-ray, 3 in basic business management, 3 in dental hygiene, 3 in dental materials, 1 in introduction to dental auxiliaries, and 1 in first aid, for a total of 23 semester hours (2/75).

MOS-91E-002

Dental Specialist

91E10
91E20
91E30
91E40
91E50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 911 (Dental).

Description

Summary: Assists in managing a dental facility or assists dentist in preventing, examining, and treating diseases of the teeth and oral region. *Skill Level 10:* Assists dentist in dental care and treatment; protects patient from excessive exposure to ionizing radiation; exposes and mounts bitewing, periapical, and occlusal radiographs, using bisecting angle and long-cone paralleling techniques; exposes extraoral panoramic radiographs; prepares developer and fixer solutions; prepares equipment and materials to measure and mix commonly used permanent and nonpermanent restorative materials, such as dental amalgam, composite and unfilled acrylic resins, zinc oxide and eugenol materials, cavity liners and bases, intermediate restorative materials, and zinc phosphate cement; prepares equipment and materials to measure and mix commonly used impression materials and gypsum products, including irreversible hydrocolloid, polysulfide impression material, plaster of Paris, and artificial stone; fabricates casts from preliminary impressions; prepares and maintains dental chair, unit, and light; sharpens dental instruments; prepares instrument setups for commonly performed dental procedures; identifies, selects, and passes to dentist appropriate instruments for dental treatment procedures in the oral surgical, oral diagnostic, endodontic, restorative, periodontic, pedodontic, orthodontic, and prosthodontic specialties; performs resuscitative procedures and operates resuscitative equipment; schedules dental appointments; maintains patient records and records information and data, using authorized symbols and abbreviations; applies aseptic techniques in cleaning, packaging, sterilizing, and storing dental instruments, equipment, and supplies. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a dental hygienist; selects and prepares dental handpieces, contra-angles, ultrasonic equipment, therapeutic solutions, and other materials to perform oral prophylaxis; applies disclosing solutions; assists dentists in carrying out oral disease control programs, including individual and group patient education and motivation; removes anatomical and acquired stains, calculus, and bacterial plaque from teeth, using hand instruments or ultrasonic equipment, dental floss, and other adjuncts; polishes teeth with abrasives; applies topical fluoride solutions for prevention of dental caries; applies pit and fissure sealants; records information on abnormal appearance and characteristics of the tissues of teeth and oral region; refers patient to dentist for consultation and treatment; performs user maintenance on hand instruments, contra-angles, and ultrasonic equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs reversible dental procedures under the direct supervision of a dentist; assists in managing a small dental facility; performs diagnostic procedures such as vitality tests, diet analysis, and nutritional consultation; exposes and develops special intraoral and extraoral radiographs; isolates operative site by placement of rubber dam; selects and applies matrix bands and wedges; inserts, condenses, carves, polishes, and finishes various restorations; assists dentist in treating pericoronitis and local osteitis; removes sutures; manages surgical patient pre- and post-operatively; makes preliminary impressions; isolates teeth for endodontic treatment; establishes stock level for supplies and equipment and is responsible for ordering, storing, and issuing supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing medium-sized dental facility; assists dentist in performing complex dental procedures. *Skill Level 50:* Able to perform the duties required for 91E40 or 42D40 (Dental Laboratory Specialist); assists in managing a dental clinic, dental laboratory, or dental organization; normally supervises from 20 to 120 subordinate personnel; inspects dental facilities to assure cleanliness, safety, and comfort; assists dentists in analyzing clinical and laboratory operations to insure efficient utilization of personnel and equipment; supervises maintenance of administrative and professional dental files and technical library; reviews and consolidates technical, administrative, and personnel reports; coordinates the activities of dental units; provides technical assistance in planning and staffing new facilities and in modifying existing facilities; plans, schedules, coordinates, and supervises dental specialty training.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 3 in chairside assisting, 3 in dental radiology, 2 in basic dental science, and 1 in emergencies, for a total of 17 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 3 in dental materials, 2 in basic dental science, 2 in dental health, and 1 in emergencies, for a total of 33 semester hours (6/77).

Recommendation, Skill Levels 30 and 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 8 in clinical training (dental therapy assistant), 6 in dental materials, 4 in dental health, 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 2 in basic dental science, 2 in related dental science, 1 in emergencies, and 1 in four-handed dentistry, for a total of 49 semester hours (6/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 8 in clinical training (dental therapy assistant), 6 in dental materials, 4 in dental health, 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 2 in basic dental science, 2 in related dental science, 1 in emergencies, 1 in four-handed chemistry, 3 in personnel supervision, 2 in health care management, and 2 for field experience in management, for a total of 56 semester hours (6/77).

MOS-91F-001

NEUROPSYCHIATRIC SPECIALIST

91F20
91F30
91F40

Exhibit Dates: 3/74-8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists in the care and treatment of psychiatric, drug, and alcohol patients and in the management of a psychiatric facility, under the supervision of a psychiatric nurse. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); assists with diagnostic procedures; observes, records, and reports significant patient behavior; identifies and responds to psychopathological behaviors; provides intensive care for patients who are receiving special treatment; participates in individual and group therapies and somatic therapy; safeguards confidentiality of patients' clinical records and reports; orients patients to the services and routines of the treatment facility; supervises personal hygiene of patients and assists them in meeting their physical needs; accompanies patients to appointments and therapeutic activities within treatment facility and local community; functions as a member of electroconvulsive therapy team; assists with general nursing care activities, measuring and recording vital signs, administering prescribed medications, and collecting and labeling specimens. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of psychiatric ward; organizes work schedules and assigns duties; evaluates personnel; requisitions, stores, and issues supplies and equipment; assists with in-service training programs; serves as a group facilitator, under professional supervision. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; assists with management of psychiatric nursing activity; advises and assists professional staff in technical, administrative, personnel, and fiscal matters; establishes work priorities; compiles management data; inspects facility to insure a comfortable, safe, and sanitary environment; coordinates activities with other elements of medical treatment facility.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours for clinical experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 2 in human development, 2 in psychology of human adjustment (concepts of normality and psychopathology), for a total of 15 semester hours (3/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours for clinical experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 3 in psychiatric ward management, 3 in personnel supervision, 2 in human development, and 2 in psychology of human adjustment (concepts of normality and psychopathology), for a total of 21 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, *if the duty assignment was chief psychiatric wardmaster at pay grade E-7 or detachment sergeant at pay grade E-7,* 3 semester hours for field experience in management (3/76).

MOS-91F-002

PSYCHIATRIC SPECIALIST

91F10
91F20
91F30
91F40

Exhibit Dates: 9/76-Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists in the care and treatment of psychiatric, drug, and alcohol patients and in the management of a psychiatric facility, under the supervision of a psychiatric nurse. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); assists with diagnostic procedures; observes, records, and reports significant patient behavior; identifies and responds to psychopathological behaviors; provides intensive care for patients who are receiving special treatment; participates in individual and group therapies and somatic therapy; safeguards confidentiality of patients' clinical records and reports; orients patients to the services and routines of the treatment facility; supervises personal hygiene of patients and assists them in meeting their physical needs; accompanies patients to appointments and therapeutic activities within treatment facility and local community; functions as a member of electroconvulsive therapy team; assists with general nursing care activities, measuring and recording vital signs, administering prescribed medications, and collecting and labeling specimens. *Skill Level 20:* Able to perform the duties required for Skill Level 10; dispenses medication; supervises patient activities, such as physical reconditioning, occupational therapy, recreational therapy, and group therapy; *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of psychiatric ward; organizes work schedules and assigns duties; evaluates personnel; requisitions, stores, and issues supplies and equipment; assists with in-service training programs; serves as a group facilitator, under professional supervision. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; assists with management of psychiatric nursing activity; advises and assists professional staff in technical, administrative, personnel, and fiscal matters; establishes work priorities; compiles management data; inspects facility to insure a comfortable, safe, and sanitary environment; coordinates activities with other elements of medical treatment facility; reviews and consolidates technical and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychiatric nursing, 3 in psychiatric therapies, 3 for clinical experience in mental health, 2 in abnormal psychology, and 2 in human development, for a total of 13 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychiatric nursing, 3 in psychiatric therapies, 5 for clinical experience in mental health, 2 in abnormal psychology, and 2 in human development, for a total of 15 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours for clinical experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 3 in psychiatric ward management, 3 in personnel supervision, 2 in abnormal psychology, and 2 in human development, for a total of 21 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91G-001

BEHAVIORAL SCIENCE SPECIALIST (SOCIAL WORK/PSYCHOLOGY SPECIALIST)

91G20
91G40

Exhibit Dates: 10/73-8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Assists with management of mental health facility or assists professional staff in obtaining social case histories, collecting basic psychological data, and counseling. *Skill Level 20:* Assists psychologist, social worker, or psychiatrist in gathering social histories and psychological data and in counseling clients; interviews clients; administers and scores tests; records behavioral characteristics based on interviews and observations; conducts collateral interviews and abstracts and compiles pertinent information from clinical and other records; presents case study and recommendations orally and in writing; maintains a counseling relationship to ascertain adjustment of clients; assists in resolving adjustment problems, including physical trauma; assists in providing counseling services for personnel with marital problems, indebtedness, drug abuse, alcoholism, child and adolescent maladaptive behavior patterns; intervenes in a crisis situation; collects and organizes statistical data. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises preparation, dispatch, safeguarding, and filing of clinical reports and records; plans work schedules and assigns duties; supervises Skill Level 20 personnel; conducts in-service training programs and conferences; coordinates activities with other medical personnel; prepares, consolidates, and reviews technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychology (includes human growth and development, testing, behavioral concepts, and personality disorders), 3 in interviewing theory and skills, 3 in psychiatric treatment modalities, and 3 for a practicum in counseling, for a total of 12 semester hours (3/76).

Recommendation, Skill Level 40

In the lower division baccalaureate/associate degree category, 3 semester hours in psychology (includes human growth and development, testing, behavioral concepts, and personality disorders), 3 in interviewing theory and skills, 3 in psychiatric treatment modalities, 3 for a practicum in counseling, 2 in mental health facility management, and 1 in personnel supervision, for a total of 15 semester hours (3/76).

MOS-91G-002

BEHAVIORAL SCIENCE SPECIALIST

91G10
91G20
91G30
91G40

Exhibit Dates: 9/76-Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Under professional supervision, assists with management of mental health activity or obtains social case histories; collects basic psychological data; performs counseling functions. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); interviews clients; conducts collateral interviews and screens records; administers and scores intelligence tests under supervision; assists in determining client need for referral to a professional; records psychosocial data and behavior observations; orients and refers clients to military, civilian, and agency resources; prepares and presents cases for staffings and conferences; requests and transmits client records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under professional supervision, provides supportive counseling and follow-up service to individuals experiencing a wide range of social or emotional problems; assists with group counseling and therapy sessions; leads discussion groups; assists in determination of need for hospitalization; under supervision, administers and scores achievement tests, objective personality tests, and tests of organic impairment and records the results; assists patients with discharge planning; consults on management of individual behavioral problems; assists professional staff in setting up home health care programs and makes follow-up home visits; gathers statistical data; establishes and maintains clinical and general office files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides advice and limited technical guidance to subordinate personnel; provides supportive counseling and crisis intervention services to clients; assists in staffing and coordination of highly complex cases; collects and organizes research data and makes statistical computations; assists in analysis of research data and report writing; compiles case load data and assigns clients to specific staff members; evaluates manpower requirements; prepares administrative reports; requisitions, stores, and issues supplies, equipment, publications, and training aids; develops work procedures and practices; prepares and conducts in-service training programs. *Skill Level 40:* Able to perform the duties required for Skill Level 30; under supervision, administers and records thematic projective tests; assists in determining program and management objectives and procedures; establishes work priorities and work schedules; assigns duties and instructs subordinates in work techniques and procedures; prepares and conducts training programs; evaluates and counsels personnel and prepares evaluation reports; coordinates activity of facility with related elements of the medical treatment facility; advises and assists professionals with fiscal, technical, and administrative matters; establishes stock level for supplies and equipment.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 1 in sociology, and 1 in psychological testing, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 3 in psychological testing, and 1 in sociology, for a total of 16 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 3 in psychological testing, 2 in personnel supervision, and 1 in sociology, for a total of 20 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical psychology and counseling, 4 in psychological testing, 3 in psychology, 3 in human relations, 3 in personnel supervision, 3 in principles of administration, and 1 in sociology, for a total of 25 semester hours. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91H-001

ORTHOPEDIC SPECIALIST

91H20
91H40

Exhibit Dates: 10/73-8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists physician in treatment of patients with orthopedic conditions and injuries and/or assists with the management of orthopedic clinic. *Skill Level 20:* Able to perform the duties of 91B10 (Medical Specialist); assists with minor surgery in orthopedic clinic (does not scrub in the operating room); prepares treatment area and lays out equipment and sterile/nonsterile supplies; transfers and prepares patient for surgery; assists in positioning patient on fracture table or other work surface and operates the fracture table under supervision of physician; assists with suturing in orthopedic clinic; changes dressings and bandages, removes sutures, and cleans and performs minor debridement of open wounds; fabricates, modifies, applies, and removes casts; constructs and applies splints; makes support bandages and slings; instructs patients regarding care of casts; assists with application of skeletal traction; applies skin traction to open stumps. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists with management of orthopedic clinic; organizes work schedules and assigns duties; instructs personnel in techniques and procedures; requisitions, stores, and issues supplies; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 7 semester hours for clinical experience in cast fabrication, modification, and application, 4 in anatomy and physiology, 2 in cast technique, 2 in orthopedic methods and materials, and 1 for clinical experience in traction application, for a total of 16 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 7 semester hours for clinical experience in cast fabrication, modification, and application, 4 in anatomy and physiology, 3 in human relations, 3 in clinic management, 2 in cast technique, 2 in orthopedic methods and materials, and 1 for clinical experience in traction application, for a total of 22 semester hours (3/76).

MOS-91H-002

ORTHOPEDIC SPECIALIST

91H10
91H20
91H30
91H40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists physician in treating patients with orthopedic conditions and injuries or assists in managing an orthopedic clinic. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision of a physician, treats orthopedic patients; may perform the duties required for Skill Level 20. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists with minor surgery in orthopedic clinic; prepares treatment area and patient for surgery or treatment; transfers patients with unstable fractures to fracture table or other work surface; operates fracture table and assists in positioning patient; changes dressings and bandages; removes sutures; cleans and performs minor debridement of open wounds; fabricates, modifies, and removes short and long leg and arm casts and hip and shoulder spica; rolls or manually shapes plaster around area to be immobilized; constructs and applies plaster and mechanized splints; makes support bandages and slings; instructs patients regarding care and danger of casts; assists in applying and adjusting skeletal traction. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing an orthopedic clinic; organizes work schedules; assigns duties; instructs subordinate personnel in work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; inspects work area to insure a safe working environment; supervises operator maintenance on assigned equipment; requisitions, stores, and issues supplies and equipment; reviews, consolidates, and prepares technical, personnel, and administrative reports; coordinates activities of orthopedic clinic with other elements of treatment facility; assists physician with technical, personnel, and fiscal matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, credit in anatomy, physiology, principles of orthopedics, orthopedic methods and materials, and clinical application of orthopedic principles on the basis of institutional evaluation (6/77).

Recommendation, Skill Levels 20 and 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical application of orthopedic principles, 4 in principles of orthopedics, 4 in orthopedic methods and materials, 3 in clinical orthopedic assisting, 3 in anatomy, and 1 in physiology, for a total of 20 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical application of orthopedic principles, 4 in principles of orthopedics, 4 in orthopedic methods and materials, 3 in clinical orthopedic assisting, 3 in anatomy, 3 in personnel supervision, 2 in communication skills, 2 in principles of management, 1 in health care management, and 1 in physiology, for a total of 28 semester hours. In the upper-division baccalaureate category, credit in medical facility management on the basis of institutional evaluation (6/77).

MOS-91J-001

PHYSICAL THERAPY SPECIALIST

91J20
91J40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 913 (Physical Medicine).

Description

Summary: Administers heat, water, manual, and other selected physical therapy treatments to patients; works under the supervision of a physical therapist. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); administers treatments involving the use of hot and cold packs, infrared, diathermy, ultrasonic apparatus, ultraviolet lamps, whirlpool and contrast and paraffin baths; conducts progressively graded conditioning exercises for patients; explains and demonstrates the use of exercise equipment for patients. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists with the management of the physical therapy section of a medical or treatment facility; inspects the facility; inspects the facility and equipment for safety hazards; organizes work schedules and assigns duties for a minimum of three personnel; assists the physical therapist with in-service training programs; orders, stores, and issues supplies; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science and 6 in physical therapy (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, and 6 in administration or management, for a total of 18 semester hours (2/75).

MOS-91J-002

PHYSICAL THERAPY SPECIALIST

91J10
91J20
91J30
91J40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical) *subfield* 912 (Patient Care).

Description

Summary: Under the direction of a physical therapist and following medical prescription, supervises or administers physical therapy treatment and exercises to decrease physical disabilities and to promote physical fitness of patients. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision, administers physical therapy treatments to patients. *Skill Level 20:* Able to perform the duties required for Skill Level 10; transports, positions, and drapes patients for treatment; administers treatment involving use of heat, ice, cervical and pelvic traction, ultraviolet light, ultrasound treatment, whirlpool, hydrotherapy, therapeutic massage, electrical stimulation, and manual exercise procedures; assists in performing postural drainage; instructs and assists patients with casts in ambulation and gait training; administers progressive resistance and physical reconditioning exercises; stores and issues supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of medium-sized physical therapy clinic; instructs and assists patients in exercise activities; performs exercise procedures for amputees and patients with central nervous system disorders; supervises operational management of unit, including personnel, supplies, equipment, and scheduling; prepares patient and administrative reports; coordinates activities of physical therapy clinic with other elements of medical treatment facility. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with management of large physical therapy clinic; supervises integration of segmented and diversified physical therapy programs conducted in several clinics.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science and 6 in physical therapy (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for

Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, 2 in human relations, and 1 for field experience in management, for a total of 15 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, 3 in human relations, and 3 for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91L-001

OCCUPATIONAL THERAPY SPECIALIST

91L20
91L40

Exhibit Dates: 10/73-8/76.

Career Management Field: 91 (Medical), *subfield* 913 (Physical Medicine).

Description

Summary: Instructs and assists patients in arts and crafts activities to promote recovery from injury or illness; works under the supervision of an occupational therapist. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); instructs and assists patients in activities such as woodworking, metal working, printing, leather working, and weaving and in the use of ceramics, plastics, and other art media; observes patient response and reports pertinent observations to an occupational therapist; motivates patients to participate in occupational therapy activities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans occupational therapy programs; assigns duties and instructs a minimum of three personnel in techniques and procedures used in a variety of therapeutic activities; prepares technical, personnel, and administrative reports on occupational therapy activities; requisitions, stores, and issues supplies and equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in creative arts, 6 in educational techniques, and 6 in occupational therapy, for a total of 21 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in creative arts, 6 in educational techniques, 6 in occupational therapy, and 6 in administration or management, for a total of 27 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

MOS-91L-002

OCCUPATIONAL THERAPY SPECIALIST

91L10
91L20
91L30
91L40

Exhibit Dates: 9/76-Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Under the direction of a registered occupational therapist, assists patients in media skills and work therapy activities; conducts interviews, administers tests, and assists patients with daily living activities to promote physical and mental health. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); interviews, tests, teaches, and assists clients in occupational therapy activities; assists in evaluating test results; interprets physician's referrals to determine therapeutic strategies; arranges for and supervises work for recreational therapeutic activities; observes, measures, and reports physiological and psychological patient responses; maintains progress records; measures, fabricates, fits, adjusts, and instructs in the use of adaptive devices; maintains equipment and supplies; maintains safe and comfortable work area. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in administering occupational therapy programs; plans ward, clinic, and recreational activity programs and assists with planning for home activity programs; teaches activities of daily living. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of medium-sized occupational therapy clinic; prepares work schedules; instructs subordinates; evaluates personnel performance; prepares administrative and patient reports; coordinates activities of occupational therapy program; advises and assists therapist in personnel and administrative matters; maintains supply levels as needed; coordinates activities of occupational therapy clinic with other elements of the medical treatment facility. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with management of a large occupational therapy clinic; coordinates integration of segmented and diversified occupational therapy programs conducted in several clinics; develops, supervises, and evaluates work method procedures and training programs; plans clinic layout and requests supporting services.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in creative arts, 3 in educational techniques, 3 in occupational therapy skills, and 3 for field experience in occupational therapy, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in creative arts, 6 in occupational therapy, 6 for field experience in occupational therapy, 3 in educational techniques, and 3 in human relations, for a total of 24 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in creative arts, 6 in occupational therapy, 6 for field experience in occupational therapy, 3 in educational techniques, 3 in human relations, and 3 in personnel supervision, for a total of 27 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in creative arts, 6 in occupational therapy, 6 for field experience in occupational therapy, 3 in educational techniques, 3 in human relations, and 3 in personnel supervision, and additional credit in principles of administration or introduction to management on the basis of institutional evaluation, for a minimum total of 27 semester hours. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91N-001

CARDIAC LABORATORY SPECIALIST

91N20
91N30
91N40

Exhibit Dates: 3/74-8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Assists with management of cardiac laboratory or records electrocardiograms (ECG) and vectorcardiograms or assists with specialized cardiac tests and examinations. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); sets up, calibrates, operates, and maintains electrocardiograph, vectorcardiograph, and phonocardiograph; attaches electrodes and conducts tests according to established procedures; transmits record to physician; cuts and mounts tracing for inclusion in medical record. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares and sets up equipment in sterile field for right and left cardiac catheterization, venous and arterial angiography, and insertion of temporary and permanent pacemakers; calibrates and operates multichannel physiologic recorders with attachments and monitors ECG, pressure curves, and other physiologic parameters; standardizes and operates electronic oximeters, dye curve densitometers, and wheatstone bridges; calibrates and operates blood gas analyzer; calculates test results, using standardized formulas; forms, molds, and refines special cardiovascular catheters, needles, and tubing; assists with resuscitation procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; assists in managing cardiac laboratory; plans work schedules; assigns duties; trains personnel in work procedures and techniques; requisitions, stores, and issues supplies and equipment; enforces safety rules in use of equipment and medical gases; prepares, reviews, and consolidates technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in cardiovascular technology and 1 in cardiovascular electronics (3/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular chemical analysis, 2 in physiological chemistry, 2 in pulmonary functions, 2 in cardiovascular technology, 2 in cardiovascular electronics, and 1 in technical mathematics, for a total of 27 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular chemical analysis, 2 in physiological chemistry, 2 in pulmonary functions, 2 in cardiovascular technology, 2 in cardiovascular electronics, 1 in technical mathematics, 3 in human relations, 1 in personnel supervision, and 2 in laboratory management, for a total of 33 semester hours (3/76).

MOS-91N-002

CARDIAC SPECIALIST

91N10
91N20
91N30
91N40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists with management of cardiac clinic or performs specialized noninvasive cardiac tests and examinations. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision, assists Skill Level 20 personnel. *Skill Level 20:* Sets up, calibrates, operates, and maintains electrocardiograph, vectorcardiograph, and phonocardiograph; attaches electrodes and conducts tests according to established procedures; transmits record to physician; cuts and mounts tracing for inclusion in medical records; administers endurance tests; under supervision, performs technical examination during operation of artificial pacemaker; performs cardiopulmonary resuscitation and uses defibrillator; performs maintenance on equipment; receives, stores, and maintains level of supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities and work schedules; assigns duties and instructs subordinates in procedures; inspects facilities; determines personnel requirements and conducts training programs; supervises operational maintenance program of laboratory and clinical equipment; evaluates and counsels personnel; establishes stock level for supplies and equipment and supervises requisition, storage, and issue of supplies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, and 1 in technical mathematics, for a total of 13 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, and 1 in technical mathematics, for a total of 23 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, 1 in technical mathematics, and 2 in personnel supervision, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, 1 in technical mathematics, 3 in personnel supervision, 3 in human relations, and 2 for field experience in management, for a total of 31 semester hours (6/77).

MOS-91P-001

X-RAY SPECIALIST

91P20
91P40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Operates or supervises the operation of fixed and portable x-ray equipment to take radiographs and to assist with treatment procedures. *Skill Level 20:* Operates x-ray machines, utilizing proper controls, voltage, current, exposure time, and safety precautions; applies principles of anatomy and physiology in determining essential factors of positioning in radiopathy; assists during fluoroscopic procedures, such as gastrointestinal studies, aortograms, arteriograms, venograms, cardiac catheterizations, urograms, and pneumogynecograms; connects and operates other equipment items used during fluoroscopy, such as cine camera, fluoroscopic viewers, rapid film changers, and automatic high-pressure injectors of contrast media. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises x-ray activities; inspects safety standards and initiates corrective action if necessary; organizes work schedules, assigns duties, and instructs personnel in technical procedures; supervises specialists in radiopathy procedures; requisitions, stores, and issues supplies; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in radiation protection, 6 in introductory radiologic technology, 9 for a radiologic internship, and 12 in radiologic technology procedures, positioning, contrast media, and intra-oral radiopathy, for a total of 30 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in radiation protection, 3 in personnel management, 3 in equipment and supplies management, 6 in introductory radiologic technology, 12 for a radiologic internship, and 12 for radiologic procedures, positioning, contrast media, and intra-oral radiopathy, for a total of 39 semester hours (2/75).

MOS-91P-002

X-RAY SPECIALIST

91P10
91P20
91P30
91P40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Operates or supervises the operation of fixed and portable x-ray equipment to take radiographs and to assist with treatment procedures. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); performs routine radiographic procedures; operates x-ray machines, utilizing proper exposure factors; applies radiation safety principles to protect self and patients from ionizing radiation; assists radiologists with fluoroscopic examination and simple special radiographic procedures; processes radiographic films by manual and automatic methods; performs routine patient administration, including the maintenance of radiographic records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assembles radiographs for reading; performs body section, stereoscopic foreign body localization, prenatal, and pediatric radiographic procedures; performs follow-up radiographic examinations of the digestive, urogenital, respiratory, vascular, and nervous system; takes radiographs of the extremities, trunk, and skull, using portable equipment; assists with special radiographic and fluoroscopic procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs complex or specialized radiograph procedures or supervises a medium-sized x-ray activity; performs routine examinations or assists with special examinations of the urogenital, respiratory, vascular, and nervous systems; inspects x-ray activities for compliance with radiation safety procedures and initiates corrective action; organizes work schedules; assigns duties; instructs personnel in technical procedures; supervises preventive maintenance of equipment; supervises procedures to enable unit to function in a toxic environment; evaluates personnel performance and prepares evaluation reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large x-ray activity; inspects clinic to insure a safe, clean, orderly, comfortable environment for patients; establishes work priorities; reviews, consolidates, and prepares technical, administrative, and personnel reports; coordinates activities of clinic with other elements of the medical treatment facility.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours for a clinical internship, 6 in radiographic techniques, and 3 in radiation protection, for a total of 18 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, and 3 in special radiographic procedures, for a total of 27 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, 3 in special radiographic procedures, and 3 in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, 3 in special radiographic procedures, 3 in personnel supervision, and 3 for field experience in management, for a total of 33 semester hours. In the upper-division baccalaureate category, 3 semester hours in radiology department administration and credit in patient care administration on the basis of institutional evaluation (6/77).

MOS-91Q-001

PHARMACY SPECIALIST

91Q10
91Q20
91Q40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Works under the supervision of a registered pharmacist or a physician; compounds, manufactures, and packages pharmaceutical products; assists in dispensing pharmaceuticals. *Skill Level 10:* Prepares commonly used ointments, solutions, lotions, and syrups; pours, weighs, and measures dosages; grinds, heats, filters, dissolves, and mixes liquid or soluble drugs and chemicals; packages, labels, stores, and issues pharmaceuticals. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interprets and verifies authenticity of prescriptions prepared by physicians, dentists, podiatrists, and veterinarians; assists a registered pharmacist in preparing drugs and medications, including narcotics and registered drugs; labels prescriptions; files signature cards and prescriptions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists with the management of pharmacy, assuring compliance with Federal and Army laws, rules, and regulations; keeps inventory of supplies; provides information regarding strength and composition of medications; supervises a minimum of five pharmacy personnel; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in general chemistry, 6 in general biology, 6 in laboratory techniques, and 6 in health sciences, for a total of 24 semester hours (2/75).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in laboratory techniques, 6 in general chemistry, 6 in biology, 6 in health science, 3 in administration, and 3 for a pharmaceutical assistant internship, for a total of 33 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in administration, 9 in laboratory techniques, 9 for a pharmaceutical assistant internship, 6 in general chemistry, 6 in biology, and 6 in health sciences, for a total of 45 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

MOS-91Q-002

PHARMACY SPECIALIST

91Q10
91Q20
91Q30
91Q40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or prepares, controls, and issues pharmaceutical products, under supervision of pharmacist or physician. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under supervision, interprets, compounds, manufactures, and files prescription orders, bulk drug orders, or unit dose orders; performs storage, accounting, inventory, and control procedures for pharmaceuticals; operates and maintains manufacturing and packaging equipment; assists in setting up unit equipment and shelters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; issues and requisitions medications; evaluates prescription orders, bulk drug orders, or unit dose orders; checks drug orders for interactions, incompatibilities, and availability of dosage forms; issues medications to patients, wards, clinics, and other using agencies. *Skill Level 30:* Able to perform the duties required for Skill Level 20: provides guidance to subordinate personnel; assists in pharmacy inspections; orders standard and non-standard supplies; maintains stock levels; supervises sections within pharmacy service. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in compiling information for meetings of Therapeutic Agent Board; assists in revision and update of hospital formulary or drug list; organizes work schedules; instructs personnel in procedures and conducts in-service training; evaluates personnel and prepares evaluation reports; sets stock levels and prepares requisition; prepares technical, personnel, and administrative reports; coordinates pharmacy activities with other elements of medical treatment facility.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 5 semester hours in introduction to pharmacy practice and 3 in pharmacy assisting, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, health sciences, and physiology on the basis of institutional evaluation, for a minimum total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice and 3 in pharmacy assisting, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, health sciences, and physiology on the basis of institutional evaluation, for a minimum total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, and 1 in inventory control, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, pharmaceutical preparations, health sciences, physiology, and laboratory techniques on the basis of institutional evaluation, for a minimum total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, 3 in personnel supervision, 2 in principles of administration, and 1 in inventory control, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, pharmaceutical preparations, health sciences, physiology, and laboratory techniques on the basis of institutional evaluation, for a minimum total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics, and additional credit in medical facility management on the basis of institutional evaluation, for a minimum total of 5 semester hours (6/77).

MOS-91R-001

FOOD INSPECTION SPECIALIST

91R10
91R20
91R40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Inspects food and food products for quality, safety, and adherence to contractual specifications. *Skill Level 10:* Assists with food hygiene and quality assurance inspections, using principles of statistical sampling, food microbiology, laboratory analysis, and knowledge of food processing and preservation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts subsistence procurement inspections; inspects processing, handling, packaging, packing, and quality control procedures in canneries, slaughterhouses, and dairies and in waterfood, meatpacking and dehydration plants; examines poultry, eggs, fruit, vegetables, seafoods, meats, and dairy products; selects, prepares, and transmits samples for laboratory testing; reviews test results for contractual requirements; records contractual deficiencies and violations and initiates recommendations for corrective action; develops and applies double and multiple statistical sampling procedures and switching techniques; reviews and updates publications relative to quality assurance procedures; assists veterinarian in antemortem and postmortem examination of food animals. *Skill Level 40:* Able to perform the duties required for Skill Level 20; trains subordinates in food inspection and sanitary control programs; analyzes reports and surveys and recommends remedial action; coordinates transportation, administration, and logistical support of food inspectors assigned from parent veterinary activity; reviews, consolidates, and prepares team inspection records and other technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in food science, 3 in inspection procedures and regulations, and 2 in microbiology, for a total of 13 semester hours (3/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 17 semester hours in food science, 4 in inspection procedures and regulations, and 2 in microbiology, for a total of 23 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 17 semester hours in food science, 4 in inspection procedures and regulations, 3 in human relations, 3 in personnel supervision, and 2 in microbiology, for a total of 29 semester hours. In the upper-division baccalaureate category, *if the duty assignment was chief food inspection NCO at pay grade E-8,* 3 semester hours for field experience in management (3/76).

MOS-91R-002

VETERINARY SPECIALIST

91R10
91R20
91R30
91R40
91R50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Inspects food and food products for quality, safety, and adherence to contractual specifications. *Skill Level 10:* Assists with food hygiene and quality assurance inspections, using principles of statistical sampling, food microbiology, laboratory analysis, and knowledge of food processing and preservation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts subsistence procurement inspections; inspects processing, handling, packaging, packing, and quality control procedures in canneries, slaughterhouses, and dairies, and in waterfood, meatpacking and dehydration plants; examines poultry, eggs, fruit, vegetables, seafoods, meats, and dairy products; selects, prepares, and transmits samples for laboratory testing; reviews test results for contractual requirements; records contractual deficiencies and violations and initiates recommendations for corrective action; develops and applies double and multiple statistical sampling procedures and switching techniques; reviews and updates publications relative to quality assurance procedures; assists veterinarian in antemortem and postmortem examination of food animals. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises procurement quality assurance and surveillance inspections; establishes work priorities; organizes work schedules; assigns duties; instructs subordinate personnel; supervises equipment maintenance programs; prepares and conducts training programs; evaluates personnel performance; maintains technical records; requisitions, stores, and issues supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 30; trains subordinates in food inspection and sanitary control programs; analyzes reports and surveys and recommends remedial action; coordinates transportation, administration, and logistical support of food inspectors; reviews, consolidates, and prepares team inspection records and other technical, personnel, and administrative reports. *Skill Level 50:* Able to perform the duties required for 91R40, 91S40 (Environmental Health Specialist), or 91T40 (Animal Specialist); develops work methods and procedures; develops, directs, and evaluates training programs; coordinates activities of veterinary and environmental health activities; assists professional staff with technical, administrative, and fiscal matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 7 semester hours in food science, 6 in inspection procedures and regulations, and 1 in veterinary preventive medicine, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, and 2 in veterinary preventive medicine, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 2 in veterinary preventive medicine, and 2 in personnel supervision, for a total of 27 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 3 in personnel supervision, 3 in human relations, and 2 in veterinary preventive medicine, for a total of 31 semester hours (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 3 in personnel supervision, 3 in human relations, 3 in principles of management, and 2 in veterinary preventive medicine, for a total of 34 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/77).

MOS-91S-001

PREVENTIVE MEDICINE SPECIALIST

91S10
91S20
91S40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Supervises or conducts surveys and inspections of environmental factors affecting health of persons in areas of concern. *Skill Level 10:* Inspects living quarters, food-handling establishments, water and waste disposal systems, work areas, barber shops and other facilities to detect deficiencies in sanitation standards and recommends corrective action; collects, identifies, preserves, and ships medically important arthropods and rodents; performs pest control procedures, including selection, safe handling, mixing, application, and disposal of pesticides; conducts environmental health surveys to determine compliance with standards and regulations; inspects facilities where ionizing and non-ionizing radiation is produced to identify and report potential health hazards; operates and maintains equipment used in inspections, surveys, and control procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs field studies and surveys to determine potential for and incidence of disease vectors; tests and recommends procedures to control insects resistant to insecticides; conducts on-the-job training for field sanitation teams in environmental sanitation and control of animal reservoirs and disease vectors. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans work schedules; assigns duties; instructs Skill Level 10 and 20 personnel in techniques and procedures; requisitions, stores, and issues supplies and equipment; assists in analyzing and evaluating data; prepares, reviews, and consolidates technical, administrative, and personnel reports.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in environmental science (includes basic concepts of chemistry, biology, laboratory procedures, mathematics, and statistics), 3 in environmental hygiene and engineering, 3 in medical entomology, 3 in environmental health practices and procedures, 2 in water supply and pollution control, 2 in chemical and radiological safety, 1 in food technology, and 1 in occupational health practices, for a total of 18 semester hours (3/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in environmental science (includes basic concepts of chemistry, biology, laboratory procedures, mathematics, and statistics), 3 in environmental hygiene and engineering, 3 in medical entomology, 3 in environmental health practices and procedures, 2 in water supply and pollution control, 2 in chemical and radiological safety, 1 in food technology, 1 in occupational health practices, 3 in pest management, and 3 for a practicum in environmental sanitation, for a total of 24 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in

environmental science (includes basic concepts of chemistry, biology, laboratory procedures, mathematics, and statistics), 3 in environmental hygiene and engineering, 3 in medical entomology, 3 in environmental health practices and procedures, 2 in water supply and pollution control, 2 in chemical and radiological safety, 1 in food technology, 1 in occupational health practices, 3 in pest management, 3 for a practicum in environmental sanitation, and 2 in personnel administration, for a total of 26 semester hours (3/76).

MOS-91S-002

Environmental Health Specialist

91S10
91S20
91S30
91S40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Supervises, conducts, or assists in surveys and inspections and establishes control measures of environmental factors affecting health of persons in areas of concern. *Skill Level 10:* Conducts environmental health surveys and inspections and assists in environmental health laboratories by inspecting living quarters, food handling establishments, water systems, liquid and solid waste disposal systems, barber and beauty shops, swimming facilities, nurseries, and industrial areas; inspects personal hygiene practices; reports deviations from prescribed health standards and recommends corrective action; collects specimens and samples and submits them to the laboratory; mixes and applies insecticides, rodenticides, and repellants; performs bacteriological examination and chemical analysis of water samples and inspects for quarantine standards; performs operator maintenance on environmental health equipment; collects data for environmental health reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts environmental health surveys, inspections, and laboratory procedures; performs stream surveys; inspects hospital infectious waste control and disposal procedures; interviews food poisoning patients and tuberculosis, VD, and other communicable disease patients and contacts; conducts related communicable disease investigations; completes case and contact reports; assists with monitoring electromagnetic radiation; identifies medically important parasites, disease vectors, and their animal hosts and recommends insect control procedures; inspects and provides technical assistance for water supply systems, liquid and solid waste collection, treatment, and disposal; inspects and provides technical assistance for collection, treatment, and disposal of hazardous waste; performs operator maintenance on environmental health equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises environmental health sections; collects and analyzes data on occupational illness, injuries, and environmental health; organizes work schedules; assigns duties; instructs in work techniques and procedures; plans and conducts training programs; supervises operational maintenance program of assigned equipment; evaluates personnel performance and prepares evaluation reports as well as administrative, technical, and personnel reports; prepares supply and equipment requisitions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises environmental health activities; organizes environmental stress surveillance programs; coordinates toxicology data with poison control center; plans vector control program; analyzes and evaluates data pertaining to environmental health activities; determines personnel requirements and establishes work priorities; advises and assists professionals in supply, fiscal, technical, and administrative matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 15 semester hours in sanitation and disease control (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control and 9 in environmental science (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control, 9 in environmental science, 3 in human relations, and 3 in personnel administration, for a total of 33 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 for field experience in management (6/77).

MOS-91T-001

Veterinary Specialist

91T20
91T40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Cares for and treats animals in field veterinary service facilities, research laboratories, and veterinary clinics. *Skill Level 20:* Restrains, isolates, and quarantines animals which have signs of communicable diseases; performs emergency treatment procedures; sets up equipment and assists veterinarian with examinations, surgical procedures, immunizations, and procedures to identify, prevent, and control zoonotic diseases; collects specimens for laboratory analysis and conducts, evaluates, and records the results of macroscopic and microscopic studies; examines animals for external parasites and prepares and examines slides to identify microscopic external and internal parasites; administers medications and inoculations, as prescribed; maintains laboratory animal colony, under supervision; makes appropriate entries on animal health records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises veterinary specialists in veterinary dispensary, animal hospital, laboratory animal colony, and animal farm; plans work schedules; trains veterinary specialists in work techniques and procedures; assures compliance with state, federal, and military regulations for handling, housing, and quarantine of animals; keeps inventory of all species of animals, laboratory and special diets, and equipment; evaluates animals to determine suitability for use in specific research projects; requisitions, stores, and issues supplies, equipment, and surgical instruments; reviews and prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 3 in anatomy and physiology of animals, 2 in microbiology, 2 in animal hygiene, 2 in screening for diseases in animal populations, 2 in medical and surgical procedures for animals, 1 in animal nutrition, 1 in pharmacology, and 1 in administration of medications, for a total of 20 semester hours. If served as a researcher or participated in research studies, additional credit on the basis of institutional evaluation. (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 3 in anatomy and physiology of animals, 3 in personnel supervision, 3 in administration of veterinary service facilities, 2 in microbiology, 2 in animal hygiene, 2 in screening for diseases in animal populations, 2 in medical and surgical procedures for animals, 1 in animal nutrition, 1 in pharmacology, and 1 in administration of medications, for a total of 26 semester hours. In the upper-division baccalaureate category, 2 semester hours in veterinary science research; *if the duty assignment is chief veterinary animal NCO at pay grade E-8,* 3 additional semester hours for field experience in management, for a total of 5 semester hours. If served as a researcher or participated in research studies, additional credit on the basis of institutional evaluation. (3/76).

MOS-91T-002

Animal Care Specialist
(Animal Specialist)

91T10
91T20
91T30
91T40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Under the direction of a veterinarian, supervises, performs, or assists in the care and treatment of small, medium-sized, and large animals. *Skill Level 10:* Assists in providing animal care, management, and treatment by feeding and watering small and medium-sized animals; cleans and sanitizes animal facility, equipment, and utensils; receives and identifies incoming animals; quarantines incoming and sick animals; administers parenteral and oral medications and immunizations; collects and prepares blood and urine samples and fecal specimens; performs common laboratory tests, such as examination for microfilaria; assists in taking radiographs; prepares animals and equipment for surgery and anesthesia; administers post-operative treatment and monitors post-operative recovery; provides emergency treatment when appropriate; records laboratory results in health records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides animal care, management, and treatment; prepares health and vaccination certificates for veterinarian's signature; requisitions, receives, stores, and inventories pharmaceuticals, supplies, and equipment; prepares reagents, emergency drugs, and special animal rations; maintains animal files, including registration, health data, and immunization record; identifies common animal diseases and performs standard treatment techniques; debrides and sutures superficial wounds; calculates and administers drugs; induces general anesthesia and operates anesthetic equipment; assists in surgical procedures; maintains operating room supplies and cleanliness; performs appropriate laboratory analyses; informs owners of proper treatment instructions and medications prescribed by veterinarian; supervises animal registry and animal pound. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small and medium-sized veterinary activities; organizes work schedules and assigns duties; instructs personnel in proper work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; supervises operator maintenance on assigned equipment; conducts in-service training programs; supervises requisition of supplies and equipment; prepares, reviews, and consolidates technical, personnel, and administrative reports; inspects facility; assists veterinarian in personnel, supply, and fiscal matters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large veterinary activities.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in veterinary laboratory techniques. In the lower-division baccalaureate/associate degree category, 2 semester hours in animal hygiene, 2 in animal diseases, 1 in microbiology, 1 in anatomy and physiology of animals, and 1 in administration of drugs, for a total of 7 semester hours. If served as a researcher or participated in research studies, additional credit on the basis of institutional evaluation. (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in veterinary laboratory techniques and 3 in office practices and procedures. In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 4 in veterinary laboratory techniques, 4 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 2 in animal hygiene, 2 in animal diseases, and 1 in surgical procedures for animals, for a total of 25 semester hours. If served as a researcher or participated in research studies, additional credit on the basis of institutional evaluation. (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in veterinary laboratory techniques and 3 in office practices and procedures. In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 4 in veterinary laboratory techniques, 4 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 3 in personnel supervision, 3 in technical report writing, 3 in office management, 2 in animal hygiene, 2 in animal diseases, and 1 in surgical procedures for animals, for a total of 34 semester hours. If served as a researcher or participated in research studies, additional credit on the basis of institutional evaluation. (6/77).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in veterinary facility management and for field experience in management on the basis of institutional evaluation. If served as a researcher or participated in research studies, additional credit on the basis of institutional evaluation. (6/77).

MOS-91U-001

EAR, NOSE, AND THROAT SPECIALIST

91U20

91U40

Exhibit Dates: 9/75-8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or conducts routine diagnostic tests and assists in caring for and treating patients with ear, nose, and throat illnesses or injuries. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); administers and records patient responses to various labyrinthine tests; measures auditory acuity with audiometer and tuning forks, records test results, makes graphs and interpolates to determine patients' test scores and need for further audiometric testing; irrigates patients' ears; assists physician with clinical procedures, such as Proetz position treatment, antral irrigation, control of nose and throat hemorrhage, dilation of salivary gland ducts and removal of calculi, reduction of nasal fractures, biopsies of the ears, nose, and throat; assists surgeon in removing cysts, nasal polyps, and other minor surgery; assists with application of post operative dressings and procedures; sterilizes and cares for instruments and equipment; performs and records results of special diagnostic tests, such as electronystagmography and acoustic bridge. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists in management of ENT clinics; instructs Skill Level 20 personnel in proper work techniques and procedures; organizes work schedules; assigns duties; sets priorities; inspects clinic and takes corrective action, as necessary; supervises maintenance program of clinical equipment; requisitions, stores, and issues supplies; prepares administrative and patient reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours for clinical experience in otolaryngology, 4 for clinical experience in audiometry, 3 in principles of audiometry, 3 in diseases and injuries of the ears, nose, and throat, and 1 in anatomy and physiology of the ears, nose, and throat, for a total of 15 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours for clinical experience in otolaryngology, 4 for clinical experience in audiometry, 3 in principles of audiometry, 3 in diseases and injuries of the ears, nose, and throat, 1 in anatomy and physiology of the ears, nose, and throat, 2 in clinic management, and 1 in personnel supervision, for a total of 18 semester hours (3/76).

MOS-91U-002

EAR, NOSE, AND THROAT (ENT) SPECIALIST

91U10

91U20

91U30

91U40

Exhibit Dates: 9/76-Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Conducts routine diagnostic tests and assists physician in care and treatment of ear, nose, and throat patients. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); administers and records patient responses to various diagnostic and labyrinthine tests; measures auditory acuity; irrigates patients' ears; sets up equipment and assists physician with clinical procedures; obtains specimens for culture and prepares laboratory requests; prepares equipment trays and basins; assists the physician in the performance of minor surgery; sterilizes and cares for instruments and equipment; operates resuscitation and oxygenation equipment; performs and records the results of diagnostic tests; assists audiologist in hearing aid evaluation. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; administers prescribed medication. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in managing a small ear, nose, and throat clinic; organizes work schedules; assigns duties; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; prepares training program; evaluates personnel performance and prepares evaluation reports; coordinates activities of ENT clinic with other elements of the medical treatment facility; assists physician with personnel, fiscal, and administrative matters; prepares, reviews, and consolidates technical and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ear, nose, and throat clinic.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, and 1 in anatomy and physiology, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 7 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, 2 in principles of audiometry, and 1 in anatomy and physiology, for a total of 13 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 7 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, 3 in personnel supervision, 2 in principles of audiometry, 2 in communication skills, 2 in principles of management, 1 in anatomy and physiology, and 1 in health care management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91V-001

RESPIRATORY SPECIALIST

91V20
91V40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Operates equipment to deliver medicinal gases and drugs in aerosoled mist to respiratory system and performs diagnostic tests. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); administers oxygen and aerosols containing prescribed medications to aid ventilation; assists in operation of mechanical respiratory aids; observes and records response of patients and conditions requiring professional attention; operates spirometer to obtain diagnostic data; performs blood gas analyses; calculates respiratory volumes; prepares records of test results. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans work schedules and makes duty assignments; trains subordinate personnel in techniques and procedures; provides orientation to other hospital personnel; instructs on precautions and enforces safety regulations; responsible for purchases and inventories; prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic sciences (mathematics, chemistry, physics), 4 in anatomy and physiology, 1 in pharmacology, 2 in microbiology and immunology, 8 in cardiopulmonary physiology and resuscitation, 4 in clinical medicine, 1 in physical therapy, 4 in respiration therapy, and 8 for clinical experience in respiration therapy, for a total of 34 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic sciences (mathematics, chemistry, physics), 4 in anatomy and physiology, 1 in pharmacology, 2 in microbiology and immunology, 8 in cardiopulmonary physiology and resuscitation, 4 in clinical medicine, 1 in physical therapy, 4 in respiration therapy, 8 in clinical experience in respiration therapy, 3 in personnel supervision and 3 in human relations, for a total of 40 semester hours (3/76).

MOS-91V-002

RESPIRATORY SPECIALIST

91V10
91V20
91V30
91V40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists with the care and treatment of patients requiring respiratory assistance; performs pulmonary function tests under the supervision of a physician or anesthetist. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); administers respiratory therapy and performs pulmonary function tests; receives and interprets treatment request; prepares and tests equipment; mixes prescribed cardiopulmonary medications; verifies identity and instructs, orients, and positions patient for therapy; adjusts controls of intermittent positive pressure breathing (IPPB) apparatus and administers therapy; assesses tidal volume and adjusts apparatus to meet ventilatory changes; observes, corrects, and records patient response; administers aerosol and gas therapy; adjusts and maintains equipment during operation and observes safety regulations; administers pulmonary drainage procedures; percusses and vibrates patient; collects and visually analyzes sputum specimens for foreign substances; assists with cardiopulmonary resuscitation, evaluates effectiveness, and records results; prepares and tests nebulizer for administration of medication and adjusts for drug concentration; follows isolation procedures; disassembles, cleans, sterilizes, assembles, and tests respiratory therapy equipment; adjusts volume ventilator controls for initial operation and during therapy; observes and corrects patient response and evaluates ventilator effectiveness; weans patient from ventilator dependence; prepares, tests, and administers special volume ventilator equipment, such as chronic positive pressure breathing (CPPB), intermittent mandatory ventilation (IMV), chronic positive airway pressure (CPAP), and positive and expiratory pressure (PEEP); applies electromechanical monitors; evaluates airway patency; instills solution prior to traceobronchial aspiration; hyperinflates and hyperoxygenates patient; aspirates tracheobronchial passage; inflates and deflates tracheostomy cuff; provides tracheostomy tube and stoma care; evaluates patient cardiorespiratory status; utilizes emergency ventilators; evaluates resuscitator's effectiveness; implements culturing procedures; applies corrective actions for contaminated equipment; reads and evaluates patient charts; instructs patient and family in breathing exercises and postural drainage procedures and evaluates ability to operate home therapy equipment; maintains safe, clean, and orderly work area; stores and maintains supplies and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; calibrates and slopes arterial blood gas analyzer; performs arterial blood gas procedures and interprets and records results; applies safety precautions relevant to pulmonary function testing, administers basic pulmonary function test, calculates data, and compares results; performs auscultation of lungs; receives and issues supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in defibrillation of patient; plans and monitors culturing procedures; determines corrective action for contaminated equipment; inspects working areas to insure orderly, clean, and safe environment for patients; supervises operational maintenance program of clinical equipment; prepares and conducts training programs; evaluates personnel performance and prepares evaluation reports; prepares administrative technical and patient reports; supervises packing, unpacking, loading, unloading, and setting up of unit equipment and shelters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises respiratory unit activities; applies and monitors safety procedures relevant to modular pulmonary function testing; administers test, calculates test data, records results, and compares results with normal predicted values; develops, implements, and evaluates training programs; compiles management data, evaluates and determines personnel requirements, and assists in the planning and operation of respiratory unit; coordinates activities of unit with other elements of the medical treatment facility; advises and assists professional staff in supply economy procedures and fiscal, technical, and administrative matters; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category, 30 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 8 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), and 1 in pharmacology, for a total of 30 semester hours (6/77).

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 33 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 11 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), and 1 in pharmacology, for a total of 33 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 20 and 30. In the lower-division baccalaureate/associate degree category, 11 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), 1 in pharmacology, 3 in personnel supervision, and 3 in clinic management, for a total of 39 semester hours. In the upper-division baccalaureate category, credit in patient care administration, introduction to management, and for field experience in management on the basis of institutional evaluation (6/77).

MOS-91W-001

NUCLEAR MEDICINE SPECIALIST

91W20
91W40

Exhibit Dates: 9/75–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Supervises or performs medical diagnostic and therapeutic procedures with isotopes. *Skill Level 20:* Able to perform the duties required for 91P20 (X-Ray Specialist) or 92B20 (Medical Laboratory Specialist); uses radioactive materials to aid in diagnosis and treatment of patients; operates radiological imaging devices and counters; makes scans of organs, such as brain, liver, thyroid, kidneys, pancreas, spleen, and lungs; labels pharmaceuticals with radioactive materials; calculates dosage, prepares dilution, and administers radiopharmaceuticals orally or by injection, under direct supervision of physician; performs blood volume determination, Schilling test, thyroid uptake, red cell survival time, and fat metabolism studies on collected specimens; performs assay procedures, such as thyroxine, cortisal, digoxin and insulin determinations, on biologic specimens, in vitro, using beta and gamma radioassay techniques; determines and records activity of radioisotope stocks and waste; operates detectors to determine presence of health hazards from therapeutic, diagnostic, and experimental radioactive isotopes; measures and records degree of contamination, controls spread of contamination, and institutes decontamination procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises operation of nuclear medicine facility; evaluates accuracy, efficiency, and safety of all techniques; conducts radiation safety program; requisitions, accounts for, and stores radioisotopes; disposes of stocks when radioactivity decays to nonusable level; reviews, consolidates, and prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 12 semester hours for a practicum in nuclear medicine, 8 in nuclear medicine methodology, 2 in nuclear physics, 2 in nuclear instrumentation, 1 in radiopharmaceuticals, and 1 in radiation safety, for a total of 26 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours for a practicum in nuclear medicine, 8 in nuclear medicine methodology, 3 in interpersonal relationships in health care, 3 in personnel supervision, 2 in nuclear physics, 2 in nuclear instrumentation, 2 in radiation safety, and 1 in radiopharmaceuticals, for a total of 33 semester hours (3/76).

MOS-91W-002

NUCLEAR MEDICINE SPECIALIST

91W10

91W20

91W30

91W40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or performs medical diagnostic and therapeutic procedures with radioactive isotopes. *Skill Level 10:* Able to perform the duties required for 91P10 (X-ray Specialist) or 92B10 (Medical Laboratory Specialist) or 91B10 (Medical Specialist); prepares and administers radioisotopes to patients and operates radiological imaging devices and counters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs operational checks, standardizing procedures, and preventive maintenance on equipment; calculates dosage, prepares dilution, and administers it under direct supervision of physician; operates imaging device to make scans of organs, such as brain, liver, thyroid, kidneys, pancreas, spleen, and lungs; makes photographs of images; collects appropriate specimens for procedures, such as blood volume determination, Shilling test, thyroid uptake, red cell survival time, and fat metabolism studies; performs assay procedures, using beta and gamma radioassay techniques; determines activity of radioisotope stocks and waste; determines presence of health hazards from therapeutic, diagnostic, and experimental radioactive isotopes; measures and records degree of contamination, controls spread of contamination, and institutes decontamination procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with the management of a nuclear medicine facility; requisitions, accounts for, and stores radioisotopes used in the laboratory; is responsible for radiation safety program in laboratory area; supervises radiation survey, monitoring, and contamination control procedures; disposes of stocks when radioactivity decays to nonusable level; establishes work priorities and procedures; organizes work schedules; assigns duties; establishes safety procedures; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; prepares patient, technical, and administrative reports; coordinates activities of nuclear medicine facility with other elements of the medical treatment facility; advises and assists professional staff with technical, administrative, and fiscal matters.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in algebra, and 6 in physics, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, and 6 in physics, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 24 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, 6 in physics, and 3 in advanced nuclear medicine procedures, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 27 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, 6 in physics, 3 in advanced nuclear medicine procedures, 3 in personnel supervision, and 3 in human relations, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 3 semester hours in administration of nuclear medicine facility (6/77).

MOS-91Y-001

EYE SPECIALIST

91Y20

91Y40

Exhibit Dates: 9/75–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or conducts routine diagnostic tests and assists in care and treatment of ophthalmology or optometry patients. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); measures visual acuity; neutralizes and records power of corrective lenses or fragments of lenses; measures and records color vision, accommodative ability, muscle balance, intraocular pressure, limits of central and peripheral visual field, corneal curvature and vertical height of palpebral fissure; takes necessary measurements for fitting spectacles; treats minor eye ailments and injuries; assists physician in performing minor surgery; maintains ophthalmology and optometry equipment and instruments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists in management of eye clinic; organizes work schedules and sets priorities; assigns duties; instructs Skill Level 20 personnel in proper work techniques and procedures; inspects clinic and initiates corrective action, if necessary; supervises maintenance of clinical equipment; requisitions, stores, and issues supplies; prepares administrative and patient reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours for clinical experience in ophthalmology, 3 for clinical experience in optometry, 2 in anatomy and physiology of the eye, 2 in principles of ophthalmology, and 2 in principles of optometry, for a total of 12 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for clinical experience in ophthalmology, 3 for clinical experience in optometry, 2 in anatomy and physiology of the eye, 2 in principles of ophthalmology, 2 in principles of optometry, 2 in clinic management, and 1 in personnel supervision, for a total of 15 semester hours (3/76).

MOS-91Y-002

EYE SPECIALIST

91Y10

91Y20

91Y30

91Y40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Conducts routine diagnostic tests and assists in care and treatment of ophthalmology or optometry patients. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); conducts routine diagnostic tests, administers prescribed medications, and assists in caring for eye patients; determines purpose of patient visit; administers various visual tests and records results; measures accommodative ability; measures muscle balance with and without correction, near and distant; measures limits of central and peripheral field, intraocular pressure, interpupillary distance, bridge size, and temple length; performs minor repairs and adjustments to spectacles; instills drops and ointments in eyes as prescribed; removes nonimbedded foreign objects from surface of eye or underside of lid; assists in obtaining specimens; assists the physician in performing minor surgery; maintains ophthalmology and optometry equipment and instruments; performs prescribed sterilization procedures; performs ophthalmic photography; measures prismatic power of lenses; operates resuscitation and oxygenation equipment; instructs patients in insertion, removal, and care of contact lenses; prepares slides for wrights and grams staining; applies and removes dressings as directed; performs emergency procedures as required; maintains inventory of supplies and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in managing a small ophthalmology or optometry clinic; organizes work schedules and determines personnel requirements; assigns duties and establishes work priorities; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; coordinates activities of ophthalmology and optometry clinics with other elements of the medical treatment facility; assists physician with personnel, fiscal, and administrative matters; prepares patient and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ophthalmology or optometry clinic.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 4 for a practicum in ophthalmology, 4 for a practicum in optometry, 2 in principles of optometry, and 1 in anatomy and physiology, for a total of 15 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 6 for a practicum in ophthalmology, 6 for a practicum in optometry, 2 in principles of optometry, and 1 in anatomy and physiology, for a total of 19 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 6 for a practicum in ophthalmology, 6 for a practicum in optometry, 2 in principles of optometry, 1 in anatomy and physiology, 3 in personnel supervision, 2 in communication skills, 2 in principles of management, and 1 in health care administration, for a total of 27 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91Z-001

MEDICAL SENIOR SERGEANT

91Z50

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 91Z was discontinued and its functions were incorporated into MOS 91B, Medical Specialist.)

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Supervises general administrative functions in a medical or treatment facility; advises superiors on administrative matters; establishes and supervises the maintenance of medical records and medical reporting systems; prepares periodic and special reports concerning assigned personnel, patients, and medical care and treatment operations; evaluates training programs and requirements and supervises or conducts individual or group training; assists command surgeon in technical supervision of subordinate medical activities, staff, and unit operations; makes recommendations for improving working conditions and procedures; determines requirements for and adequacy of medical service supporting elements such as ambulance, supply, and transportation. NOTE: Required to have attained Skill Level 40 or 50 in at least one other MOS in the medical career management field (91).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 26 semester hours in administration or management, 12 for an internship in medical administration, 6 in accounting, 6 in business machines operation, and 6 in medical records administration, for a total of 56 semester hours. In the upper-division baccalaureate category, a minimum of 17 semester hours in administration or management, 6 for an internship in medical administration, and 3 in medical record administration, for a minimum total of 26 semester hours; additional credit in accounting, business machines operation, administration or management, medical records administration, and for an internship in medical administration on the basis of institutional evaluation (2/75).

MOS-92B-001

MEDICAL LABORATORY SPECIALIST

92B20

92B30

92B40

Exhibit Dates: 10/73-8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Supervises or performs bloodbanking procedures and elementary and advanced examinations of biological specimens to aid in diagnosis, treatment, and prevention of disease. *Skill Level 20:* Performs blood banking and elementary laboratory procedures related to immunohematology, hematology, biochemistry, serology, bacteriology, and parasitology; selects, pretests, and bleeds donors and stores and issues blood; determines ABO group and Rh type of donor and recipient; performs immunohematology techniques, such as antibody detection and identification, antibody titers, and compatability testing; prepares and stores blood components; performs hematology tests and determinations, such as hemoglobin, cell counts, and sedimentation rate; conducts elementary biochemical tests relating to blood glucose, blood urea nitrogen, amylase, sodium and potassium chloride, and carbon dioxide; performs serology procedures, such as preparation of antigen emulsion, use of control sera, and cardiolipin microflocculation tests; tests urine and urine sediment to determine specific gravity, sugar, protein, ketone, blood, pathological constituents, and presence of formed elements and amorphous sediment; examines feces for presence of protozoa and helminths; prepares and sterilizes synthetic culture media; introduces specimens into appropriate media, incubates culture, prepares smears, makes stains, and examines slides under microscope; isolates and identifies bacterial organisms of the cocci family and common gramnegative microorganisms; calculates and records findings; collects and processes specimens for shipment to consultant laboratories. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs advanced procedures in all phases of clinical laboratory testing, including virology, mycology, histology, toxicology, and radiobiology; makes subcultures, tissue cultures, antimicrobial sensitivity determinations, and animal inoculations and autopsies; performs clinical parasitology procedures; performs fluorescent antibody agglutenation, complement fixation and other serological tests; processes tissue removed by biopsy, from autopsy, or discharged from body; performs biochemical analyses of blood, urine, sweat, spinal fluid, and tissue for carbohydrates, proteins, hemoglobins, lipids, hormones, minerals, electrolytes, vitamins, enzymes, pigments, and drugs; performs metabolic and liver and renal function tests; screens exfoliative cytology specimens; performs complete blood counts and identifies and reports erythrocyte and leukocyte maturation stages in normal and abnormal cells; performs special procedures in staining, preparation of bone marrow films, erythrocyte osmotic fragility studies, lupus erythematosus films, hemoglobin electrophoresis, detection of coagulation disorders, and abnormal cell morphology in anemias and leukemias; analyzes air, food, water, and biological fluids for radioactivity and makes radionuclide determinations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises medical laboratory activities; logs requests for laboratory procedures; establishes priorities; distributes workload; forwards specimens to consultant laboratories, as required; supervises Skill Level 20 and 30 personnel; conducts quality control program to assure validity of clinical laboratory results; assists with inspection of laboratory, notes discrepancies, and initiates corrective action; requisitions, stores, and issues supplies and equipment; reviews, consolidates, and prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in basic procedures in hematology, 4 in basic procedures in clinical chemistry and urinalysis, 3 in basic procedures in immunohematology and serology, 3 in basic procedures in medical bacteriology, and 2 in basic procedures in parasitology, for a total of 16 semester hours (3/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 16 semester hours in advanced clinical chemistry, 8 in advanced hematology, 8 in advanced medical bacteriology, 4 in introduction to cytology, 4 in parasitology, 4 in immunology, 4 in histopathology, 4 in immunohematology and blood banking, 4 in mycology, 4 in virology, and 2 in anatomy and physiology, for a total of 62 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 16 semester hours in advanced clinical chemistry, 8 in advanced hematology, 8 in advanced medical bacteriology, 4 in introduction to cytology, 4 in parasitology, 4 in immunology, 4 in histopathology, 4 in immunohematology and blood banking, 4 in mycology, 4 in virology, 2 in anatomy and physiology, 2 in medical laboratory management, and 1 in personnel supervision, for a total of 65 semester hours (3/76).

MOS-92B-002

MEDICAL LABORATORY SPECIALIST

92B10
92B20
92B30
92B40
92B50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Performs bloodbanking procedures and elementary and advanced examinations of biological and environmental specimens to aid in diagnosis, treatment, and prevention of disease. *Skill Level 10:* Receives, logs, and files requests for laboratory examination and analysis; receives, collects, and labels specimens; calculates and records results of analyses; prepares laboratory specimens for the determination of parasites, plasmodium species, ABO group and Rh type blood; performs antihuman globulin, microhematocrit, and manual hemoglobulin procedures; performs manual white-blood-cell counts; prepares and examines thin-blood film slides and stain procedures; performs erythrocyte sedimentation rate procedures; determines specific gravity and performs chemical tests on urine to detect glucose, protein, blood, ketones, mucin, or melanogen; prepares urine samples for determination of pH, microscopic examination, cells, and mucous threads; inoculates bacteriological specimens and stains bacteriological smears and examines for stain reaction; prepares and sterilizes culture media; performs manual biochemical determinations on blood; examines semiautomatically for chlorides, sodium, and potassium; performs basic serological screening for syphilis and rheumatoid arthritis; performs basic preventive maintenance on laboratory equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs bloodbanking and elementary laboratory procedures related to immunohematology, hematology, biochemistry, serology, bacteriology, and parasitology; selects, pretests, and bleeds donors, and stores and issues blood; determines ABO group and Rh type of donor and recipient; performs immunohematology techniques, such as antibody titers and compatability testing; prepares and stores blood components; performs ABO subgrouping and DU testing to detect antibodies; performs complete blood count and cell counts; performs coagulation tests; uses automated, semiautomated, or manual procedures to determine cholesterol, total protein and A/G ratio, blood pH, pO_2, and pCO_2; performs basic serology procedures for syphilis, pregnancy, infectious mononucleosis, and arthritis; prepares red cell suspensions and dilutions; examines body fluids and feces for presence of protozoa, helminths, and extraintestinal parasites; prepares and sterilizes culture media; inoculates specimens for microscopic examination; isolates, identifies, and studies microorganisms such as streptococcus, staphylococcus, pneumococcus, and common gramnegative organisms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small medical laboratory or performs advanced procedures in all phases of blood banking and clinical laboratory testing, including virology, mycology, histology, and toxicology; performs complex laboratory tests, examinations, and analyses under general supervision and provides technical assistance to subordinate personnel; performs cultures, antimicrobial sensitivity determinations, and animal inoculations, including those taken from autopsies; performs clinical parasitology procedures; performs fluorescent antibody agglutination, complement fixation, and other seriological tests; processes tissue; performs biochemical analysis of blood, urine, sweat, and spinal fluid for carbohydrates, proteins, hemoglobins, lipids, hormones, minerals, electrolytes, vitamins, enzymes, pigments, and drugs; performs metabolic, liver function, and renal function tests; screens exfoliative cytology specimens; performs complete blood counts and identifies maturation stages in normal and abnormal cells; performs special procedures in staining and preparing bone marrow smears, erythrocyte osmotic fragility studies, lupus erythematosus determinations, detection of coagulation disorders, complex electrophoresis studies, and abnormal cell morphology in anemias and leukemias; analyzes air, food, water, and biological fluids for contaminants; supervises operator maintenance procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises medium-sized medical laboratory; develops and supervises quality control measures and procedures; assigns duties; organizes work schedules; instructs subordinates; inspects laboratory; supervises operational maintenance; determines personnel requirements and prepares and conducts training program; evaluates personnel performance; prepares administrative, technical, and personnel reports; coordinates activities of medical laboratories with other units of medical facility; assists laboratory officer in administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises large medical laboratory activities.

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in a certified laboratory assistant program. In the lower-division baccalaureate/associate degree category, 15 semester hours in a medical laboratory technician program (basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology) (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 24 semester hours in a medical laboratory technician program (hematology, immunology, and immunohematology and blood banking; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology) (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 54 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking, histopathology, mycology, virology, anatomy and physiology, cytology, parasitology, advanced clinical chemistry, advanced medical bacteriology, and advanced hematology; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology). In the upper-division baccalaureate category, credit in medical technology, chemistry, and biology on the basis of institutional evaluation (6/77).

Recommendation, Skill Levels 40 and 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 54 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking, histopathology, mycology, virology, anatomy and physiology, cytology, parasitology, advanced clinical chemistry, advanced medical bacteriology, advanced hematology; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology), 3 in personnel supervision, and 3 in principles of administration, for a total of 60 semester hours. In the upper-division baccalaureate category, credit in medical technology, chemistry, biology, and medical facility management on the basis of institutional evaluation (6/77).

MOS-92C-001

PETROLEUM LABORATORY SPECIALIST

92C20
92C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 92 (Petroleum).

Description

Summary: Performs or supervises physical and chemical tests on petroleum products to determine suitability for intended use. *Skill Level 20:* Prepares reagents and glassware; calibrates and standardizes laboratory instruments; obtains petroleum test samples; performs complete specification tests, including determination of tetraethyl lead in gasoline, oxidation stability of petroleum products, and water separation; performs preventive maintenance on technical laboratory equipment; uses adequate fire prevention and safety control measures; prepares layouts and installs equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises petroleum laboratory testing activities and participates in quality surveillance programs; evaluates test results; supervises injection of anti-icing additives and corrosion inhibitors during pipeline transfers; establishes stock levels, and requisitions and stores equipment, chemicals, reagents, and reference fuels; determines methods of reclaiming or downgrading contaminated and deteriorated petroleum products; plans work schedules, assigns duties, and trains personnel in laboratory techniques; prepares and reviews administrative and technical reports; supervises from four to ten or more persons.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum products analysis, 3 in basic analytical laboratory, 2 in basic chemistry, 1 in chemical safety, and 1 in first aid, for a total of 13 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum products analysis, 3 in basic analytical laboratory, 2 in basic chemistry, 1 in chemical safety, 1 in first aid, 3 for field experience in management, 3 in human relations, and 3 in personnel supervision, for a total of 22 semester hours (5/76).

MOS-92C-002

Petroleum Laboratory Specialist

92C10
92C20
92C30
92C40

Exhibit Dates: 9/76–Present.

Career Management Field: 92 (Petroleum).

Description

Summary: Performs or supervises physical and chemical tests on petroleum products to determine suitability for intended use. *Skill Level 10:* Prepares laboratory equipment for operation; prepares reagents; calibrates instruments; obtains petroleum test samples; performs preventive maintenance on technical laboratory equipment; performs specification tests, including water content, sediment, color, carbon residue, penetration, and oxidation stability; performs quality surveillance tests; uses fire prevention and safety control measures. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; employs cooperative fuel research engine to test fuels; prepares laboratory reports; evaluates test results with specification requirements and makes product recommendations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes calibration program; assists in establishment of quality surveillance programs; supervises medium-sized petroleum laboratory activities; plans work schedules and assigns duties; makes inspections of laboratory to insure proper procedures are being followed and work is being done efficiently; supervises inspection of anti-icing additives and corrosion inhibitors during pipeline transfers; supervises placement, setting up, and maintenance of laboratory equipment; coordinates petroleum product storage and distribution activities; reviews work reports and evaluates results; maintains inventory control and performs all related supply activity; insures adherence to laboratory fire and safety procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large petroleum laboratory; assists and plans quality surveillance operations; applies principles of OSHA and EPA regulations; determines methods of reclaiming or downgrading contaminated and deteriorated petroleum products; performs quality surveillance of loading and unloading bulk shipments to insure safety and to prevent contamination; insures proper sampling and laboratory analysis of petroleum products; monitors sampling, testing, use, and blending of additives; makes reports on analysis results, environmental considerations, contracts for petroleum products, transporting, and storage; generally supervises from four to ten persons.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in petroleum products analysis, 1 in chemical safety, and 1 in first aid, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 3 in petroleum products analysis, 2 in basic chemistry, 1 in chemical safety, and 1 in first aid, for a total of 7 semester hours (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in petroleum products analysis, 1 in chemical safety, and 1 in first aid, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum products analysis, 3 in basic analytical chemistry laboratory, 2 in basic chemistry, 1 in chemical safety, and 1 in first aid, for a total of 13 semester hours (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum products analysis, 3 in basic analytical chemistry laboratory, 3 in personnel supervision, 2 in basic chemistry, 1 in chemical safety, and 1 in first aid, for a total of 16 semester hours (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 in petroleum products analysis, 3 in basic analytical chemistry laboratory, 3 in personnel supervision, 3 in technical writing, 3 in human relations, 2 in basic chemistry, 2 in industrial safety, 1 in chemical safety, and 1 in first aid, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/77).

MOS-92D-001

Chemical Laboratory Specialist

92D20
92D40
92D50

Exhibit Dates: 10/73–2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Supervises or performs routine chemical and physical tests in a chemical laboratory. *Skill Level 20:* Balances equations; knows and uses basic gas laws; performs stoichiometric calculations; sets up laboratory equipment for chemical and physical tests; prepares and labels standard solutions and reagents; performs field sampling; performs routine laboratory analysis of chemicals with established formulas and procedures; conducts physical tests to determine durability, strength, and resistance to effects of climate or chemicals of items such as clothing, shoes, paints, plastics, metals, and ceramics; performs quantitative and qualitative analyses, including microanalytical; performs toxicological studies to determine irritability and permeability; determines beta and gamma energies and half-lives of unknown isotopes; keeps records and repair reports; requisitions, receives, stores, and inventories chemical supplies and equipment; understands and applies safety procedures. NOTE: May have progressed to 92D20 from 54A10 (Chemical Operations Assistant). *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of chemical laboratory personnel; estimates supply requirements based on current and projected workloads; improvises apparatus and procedures for special purposes; instructs subordinates in laboratory techniques and procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager involved in planning, coordinating, and supervising the activities of a chemical laboratory; advises company commander on all matters concerning enlisted personnel; assists company commander in planning and implementing unit training; coordinates operation of the unit food service and supply activities.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in applied technical mathematics and 1 in chemical safety. In the lower-division baccalaureate/associate degree category, 4 semester hours in introductory chemistry, 4 in analytical chemistry, 4 in applied organic chemistry, 2 in basic instrumental analysis, 2 in applied technical mathematics, 1 in radiochemical laboratory, and 1 in chemical safety, for a total of 18 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 4 semester hours in introductory chemistry, 4 in analytical chemistry, 4 in applied organic chemistry, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in basic instrumental analysis, 2 in applied technical mathematics, 1 in radiochemical laboratory, and 1 in chemical safety, for a total of 27 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 12 semester hours (5/76).

MOS-92D-002

Chemical Laboratory Specialist

92D10
92D20
92D30

Exhibit Dates: 3/77–Present.

Career Management Field: 54 (Chemical).

Description

Summary: Supervises or performs routine chemical, biological, and physical tests. *Skill Level 10:* Balances equations; knows and uses basic gas laws; performs stoichiometric calculations; sets up laboratory equipment for chemical and physical tests; prepares and labels standard solutions and reagents; performs field sampling; performs routine laboratory analysis of chemicals with established formulas and procedures; conducts physical tests to determine durability, strength, and resistance of items such as clothing, shoes, paints, plastics, metals, and ceramics to the effects of climate or chemicals; performs quantitative and qualitative analyses, including micro-analytical; performs toxicological studies to determine irritability and permeability; determines beta and gamma energies and half-lives of unknown isotopes; keeps records and repair reports; requisitions, receives, stores, and inventories chemical supplies and equipment; understands and applies safety procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may serve as Section Chief and supervise up to 12 Chemical Laboratory Specialists; estimates supply requirements based on current and projected workloads; improvises apparatus and procedures for special purposes; instructs subordinates in laboratory techniques and procedures; performs field sampling and identification of chemical agents.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in applied technical mathematics and 1 in chemical safety. In the lower-division baccalaureate/associate degree category, 4 semester hours in introductory chemistry, 4 in analytical chemistry, 4 in applied organic chemistry, 2 in chemical laboratory techniques, 2 in applied technical mathematics, 1 in radiochemical laboratory, and 1 in chemical safety, for a total of 18 semester hours (8/78).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in applied technical mathematics and 1 in chemical safety. In the lower-division baccalaureate/associate degree category, 4 semester hours in introductory chemistry, 4 in analytical chemistry, 4 in applied organic chemistry, 2 in chemical laboratory techniques, 2 in applied technical mathematics, 1 in radiochemical laboratory, and 1 in chemical safety, for a minimum total of 18 semester hours; *if served as a section chief,* 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 27 semester hours (8/78).

MOS-93E-001

METEOROLOGICAL OBSERVER

93E20
93E30
93E40
93E50

Exhibit Dates: 10/73-2/78.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Supervises or performs meteorological observations and weather forecasts. *Skill Level 20:* Performs routine and special weather observations, employing basic meteorological principles; takes upper air observations by pilot balloon and radiosonde systems; computes meteorological ballistic data; encodes meteorological data for transmission; interprets weather data and plots surface and upper air charts; performs preventive maintenance on standard and special meteorological equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides weather forecasts from surface and upper air meteorological charts; performs climatological analyses for use in research and development activities; prepares and issues routine and severe weather warnings. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises the making and reporting of meteorological observations, forecasts, and special warnings; prepares, administers, and monitors meteorological team operations; supervises the preparation of routine and special reports; conducts on-the-job training; supervises 11 or more persons. *Skill Level 50:* Able to perform the duties required for Skill Level 30 or 40; serves as the principal noncommissioned officer of meteorological teams; at the division level, coordinates activities and use of meteorological teams; gathers and analyzes material for the improvement of meteorological training; supervises 29 or more persons.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, and 2 in electrical and electronics laboratory, for a total of 14 semester hours (11/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, 3 in weather station operation, 3 in climatology, and 2 in electrical and electronics laboratory, for a total of 20 semester hours (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, 3 in weather station operation, 3 in climatology, 3 in human relations, 3 for field experience in management, and 2 in electrical and electronics laboratory, for a total of 26 semester hours. (11/75)

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, 3 in weather station operation, 3 in climatology, 3 in human relations, 3 for field experience in management, 3 in introduction to management, and 2 in electrical or electronics laboratory, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in human relations and 3 for field experience in management (11/75).

MOS-93E-002

METEOROLOGICAL OBSERVER

93E10
93E20
93E30
93E40
93E50

Exhibit Dates: 3/78-Present.

Career Management Field: 64 (Transportation), *subfield* 644 (Air Operations).

Description

Summary: Supervises or performs meteorological observations and weather forecasts. *Skill Level 10:* Performs routine and special weather observations, employing basic meteorological principles; installs primary instruments/equipment used for measuring and recording weather conditions; calibrates and orients ground-mounted instruments; assembles, inspects and activates airborne instruments; measures surface effects, including pressure, temperature, humidity, wind speed and direction; records data from radiosonde; reads and records elevation and azimuth data from theodolite in tracking balloons for upper-air conditions; performs calibration checks; erects and orients hemispherical radiometer and net exchange radiometer; computes meteorological data from raw data, both surface effects and effects aloft; evaluates recorded and computed data; compares barometer values, using standard chart or graph values, to assembled current data; constructs profiles and curves needed for analysis and prediction; converts and encodes meteorological data into standard message format for transmission to receiving agencies; performs calibration checks and maintenance on all standard and special meteorological equipment; performs preventive maintenance on vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs meteorological observations and provides technical guidance to lower grade personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and provides technical guidance to lower skill level personnel; trains team/section members, provides work schedules, selects station sites, determines coordinates and altitude of site, and selects location for instruments and equipment; prepares meteorological observation plans; coordinates activities with other services and governmental agencies; coordinates support to Army research and development activities; provides maintenance supervision and administration; provides general management and administration of the station, including records, reports, counseling, evaluation of personnel, and preparation of efficiency reports; conducts inspections and advises commander on personnel matters, including promotions, awards and training; serves as weather forecaster, using data accumulated by meteorological observers; instructs and insures safety, fire prevention and first aid programs in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises 11 or more personnel in meteorological unit or station, including 2 or more forecasters; insures the efficient, timely issuance of collected data and forecasts. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises functions at larger meteorological units; functions in units of 30 or more personnel with 4 or more forecasters; performs administrative and supervisory duties; serving as principal noncommissioned officer, exercises overall operating responsibility for meteorological activities in unit.

Recommendation, Skill Levels 10 and 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observation, 3 in technical mathematics, 3 in weather station operation, and 2 in electrical/electronics laboratory, for a total of 17 semester hours (6/79).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observation, 3 in technical mathematics, 3 in weather station operation, 2 in electrical/electronics laboratory, 3 in climatology, 2 in human relations, 3 in personnel supervision, and 3 in office management, for a total of 28 semester hours (6/79).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observation, 3 in technical mathematics, 3 in weather station operation, 2 in electrical/electronics laboratory, 3 in climatology, 3 in human relations, 3 in personnel supervision, 3 in office management, and 3 for field experience in management, for a total of 32 semester hours. In the upper-division baccalaureate/degree category, 3 semester hours in management problems and 3 for field experience in management (6/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observation, 3 in technical mathematics, 3 in weather station operation, 2 in electrical/electronics laboratory, 3 in climatology, 3 in human relations, 3 in personnel supervision, 3 in office management, and 6 for field experience in management, for a total of 35 semester hours. In the upper-division baccalaureate category, 3 semester hours in management problems and 6 for field experience in management (6/79).

MOS-93F-001

Ballistic Meteorology Crewman

93F20

93F40

Exhibit Dates: 10/73–8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in the operation of a meteorology observation station to obtain and report atmospheric data for artillery target acquistion. *Skill Level 20:* Operates and calibrates meteorological equipment; assembles, tests, and calibrates radiosonde transmitter and recorder; uses basic principles of meteorology in the evaluation and conversion of radiosonde data into data on temperature, humidity, atmospheric pressure, and wind speed and direction; performs operator maintenance on radio direction finder and other meteorological equipment; records data on charts. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises approximately 12 persons in the operation of the meteorological observation station and the use of both ground and airborne equipment; using a basic knowledge of meteorology, assures proper calibration of electronic equipment and computation of recorded data; supervises routine maintenance of meteorological and communication equipment; establishes and maintains liaison with other weather installations both within and outside the Army.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, and 1 in technical writing, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 2 in map reading, 1 in technical writing, and 1 in electronics, for a total of 10 semester hours. (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 3 in personnel supervision, 1 in technical writing, 3 in human relations, 2 in map reading, 3 for field experience in management, and 2 in electronics, for a total of 20 semester hours (3/76).

MOS-93F-002

Field Artillery Meteorological Crew Member (Field Artillery Meteorological Crewman)

93F10

93F20

93F30

93F40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Supervises or participates in operation of field artillery meteorological observation station. *Skill Level 10:* Operates meteorological equipment in meteorological observation station; participates in assembly and emplacement of meteorological equipment and appropriate generators; operates recorders; plots pressure and wind data; assembles and disassembles balloon inflation and launching equipment; inflates and releases balloons; assembles, tests, and adjusts radiosonde transmitter; evaluates and converts raw temperature, density, and wind data; performs operator maintenance on equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as team chief during periods of extended operation; checks data and records; examines samples of data for quality control. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of meteorological section or station; selects station site; supervises emplacement, installation, calibration, maintenance, and operation of equipment; supervises preparation and distribution of ballistic meteorological messages; assigns, instructs, and supervises crewmen; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, and 1 in map reading, for a total of 7 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, 1 in map reading, and 2 in personnel supervision, for a total of 9 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, and 1 in map reading, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, 1 in map reading, 4 in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 18 semester hours (4/77).

MOS-93H-001

Air Traffic Control (ATC) Tower Operator

93H20

93H40

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 655 (Air Operations).

Description

Summary: Provides control tower and non-radar approach control services for military and civilian air traffic. *Skill Level 20:* Holds an FAA control tower operator certificate; controls air traffic operating under visual flight rules in the vicinity of the control tower; coordinates movements of aircraft operating under instrument flight rules with civil air traffic facilities; issues instructions to aircraft in accordance with published FAA and Army procedures and regulations; operates radio equipment, light signals, airport lighting systems, interphone equipment; keeps records, statistics, and recordings of radio communications; uses the operational features of various electronic navigation facilities and systems; informs aircraft personnel of hazardous conditions; prepares notices to airmen (NOTAMS). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; establishes training programs and conducts on-the-job training in air traffic control operations; administers safety programs; supervises the preparation of interfacility agreements; prepares recommendations for changes to air traffic control regulations; supervises inspections of the facility's navigational aids and radio communications equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in

air traffic control, 6 in air traffic management, and 3 in federal aviation regulations, for a total of 15 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 4 in personnel management, for a total of 19 semester hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations or air traffic control or aviation management and additional credit on the basis of institutional evaluation (2/75).

MOS-93H-002

AIR TRAFFIC CONTROL (ATC) TOWER OPERATOR

93H10
93H20
93H30
93H40

Exhibit Dates: 3/76–Present.

Career Management Field: 65 (Transportation), *subfield* 655 (Air Operations).

Description
Summary: Provides control tower and non-radar approach control services for military and civilian air traffic. *Skill Level 10:* Operates air traffic control tower and controls military and civilian aircraft during take-off, flight, and landing under Visual Flight Rules (VFR), Special Visual Flight Rules (SVFR), and Instrument Flight Rules (IFR); issues special instructions to aviators concerning airfield facilities, emergency landing areas, obstructions, landmarks, flying areas, restrictions, local regulations, weather advisories, and observed hazards that affect the safe operation of aircraft; keeps records and statistics, including tape recordings of voice radio communications, on daily air traffic operations; processes incoming and outgoing flight data information and analyzes air traffic; operates airfield lighting systems, light signals, and non-radar approach control boards; employs aeronautical charts, maps, radio, and ground communications; applies FAA and Army air traffic rules and regulations and may hold an FAA control tower operator certificate; controls vehicular traffic on airport movement area. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as shift supervisor or facility chief; supervises inspection procedures, site operation, and record keeping; prepares shift duty rosters; administers facility training programs and on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as ATC tower chief, plans, organizes, and supervises air traffic control tower activities; assigns duties, spot-checks work performed, instructs subordinates in work techniques and procedures, coordinates work activities, and establishes and supervises on-the-job training programs; prepares technical, personnel, and administrative reports; may be a designated FAA control tower operator examiner.

Recommendation, Skill Level 10
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practice, for a total of 17 semester hours (6/76).

Recommendation, Skill Level 20
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practices, for a total of 17 semester hours. In the upper-division baccalaureate category, credit in air traffic operations on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 30
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 3 in personnel supervision, 3 in organization and management, and 2 in office practices, for a total of 23 semester hours. In the upper-division baccalaureate/associate degree category, credit in air traffic operations or aviation management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in human relations, 3 in organization and management, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations, air traffic control, or aviation management and additional credit on the basis of institutional evaluation (6/76).

MOS-93J-001

ATC (AIR TRAFFIC CONTROL) RADAR CONTROLLER

93J10
93J20
93J30
93J40
93J50

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 644 (Air Operations).

Description
Summary: Provides air traffic control services, employing radar, during aircraft departure, flight, and approach. *Skill Level 10:* Provides terminal and approach control services for aircraft during take-off, flight, and landing; operates radar, issues special air traffic control instructions, keeps records, processes and analyzes air traffic data, and installs and moves ATC radar and associated equipment; applies FAA and Army air traffic rules and regulations; may hold an FAA radar controller certificate. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as shift supervisor or facility chief; supervises record keeping and radar scope alignment procedures; administers facility training programs; prepares duty rosters; prepares recommended changes to air traffic control regulations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as air traffic control chief at a terminal and approach control facility; inspects facilities, prepares operating standards, evaluates operations, and recommends changes; monitors the handling and storage of tape-recorded conversations between air traffic control personnel and aircraft pilots and other ATC facilities; arranges for training and certification of subordinate personnel and instructs personnel in ATC procedures and FAA regulations; maintains records and statistics on daily air traffic operations. *Skill Level 50:* Able to perform the duties required for 93J40 and 93H40 (Air Traffic Control Tower Operator) and supervises these personnel; supervises all air traffic control operations in a large facility; assigns personnel; establishes physical layout of work sites and insures an efficient and safe environment; reviews, consolidates, and prepares technical, personnel, and administrative reports covering all phases of air traffic control operations.

Recommendation, Skill Level 10
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practices, for a total of 17 semester hours (6/76).

Recommendation, Skill Level 20
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practices, for a total of 17 semester hours. In the upper-division baccalaureate category, credit in air traffic operations or aviation management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 30
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 3 in personnel supervision, 3 in organization and management, and 2 in office practices, for a total of 23 semester hours. In the upper-division baccalaureate category, credit in air traffic operations or aviation management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations or aviation management, and additional credit on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 50
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester

hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations or aviation management, 6 for field experience in management, 3 in introduction to management, and 3 in personnel management, and additional credit for an internship in education on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/76).

MOS-94B-001

Food Service Specialist

94B20

94B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 94 (Food Service).

Description

Summary: Procures, prepares, and cooks food; identifies and uses appropriate equipment. *Skill Level 20:* Prepares meats, fruits, vegetables, salads, desserts, beverages, and dairy products for serving; performs small-scale baking and meat cutting; operates and performs preventive maintenance on kitchen equipment; has knowledge of hygiene and sanitation procedures. Alternative job paths are available with assignment either as cook leading to dining facility manager or meatcutter leading to chief meatcutter. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the scheduling of personnel and facilities and the preparation of foods; inspects food prior to serving; supervises operation and maintenance of kitchen equipment; supervises procurement and storage of food; applies accounting procedures; maintains inventories, records, and files; completes appropriate reports. NOTE: May have progressed to 94B40 from 94B20 or 00H20 (Enlisted Aide).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation and 3 in kitchen operations; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 15 semester hours (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 2 in bookkeeping; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in kitchen operations, 3 in menu planning, 3 in personnel supervision, and 3 in human relations; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours for a food service internship (5/76).

MOS-94B-002

Food Service Specialist

94B10

94B20

94B40

Exhibit Dates: 10/74–8/76.

Career Management Field: 94 (Food Service).

Description

Summary: Procures, prepares, and cooks food; identifies and uses appropriate equipment. *Skill Level 10:* Either has undergone on-the-job training program in food preparation and serving techniques or has recently completed a program of instruction in the basic principles of food preparation and service; under the supervision of an experienced cook, weighs, blends, mixes, and cooks food in accordance with prescribed procedures; washes, peels, cuts, and dices fruits, vegetables, meats, salads, and dairy products; prepares simple soups, sauces, and gravies; under the supervision of an experienced baker, prepares simple baked items, including breadstuffs and desserts; assists in receiving and storing food and supplies; operates and performs preventive maintenance on food service equipment; portions and serves food on serving line; applies required sanitation procedures in handling, storing, preparing, and serving food. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares meats, fruits, vegetables, salads, desserts, beverages, and dairy products for serving; performs small-scale baking and meat cutting; operates and performs preventive maintenance on kitchen equipment; has knowledge of hygiene and sanitation procedures. Alternative job paths are available with assignment either as cook leading to dining facility manager or meatcutter leading to chief meatcutter. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the scheduling of personnel and facilities and the preparation of foods; inspects food prior to serving; supervises operation and maintenance of kitchen equipment; supervises procurement and storage of food; applies accounting procedures; maintains inventories, records, and files; completes appropriate reports. NOTE: May have progressed to 94B40 from 94B20 or 00H20 (Enlisted Aide).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in quantity food preparation, 1 in kitchen operations, and 1 in food service operations, for a total of 5 semester hours (5/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation and 3 in kitchen operations; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 15 semester hours (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 2 in bookkeeping; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in kitchen operations, 3 in menu planning, 3 in personnel supervision, and 3 in human relations; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours for a food service internship (5/76).

MOS-94B-003

Food Service Specialist

94B10

94B20

94B30

94B40

94B50

Exhibit Dates: 9/76–Present.

Career Management Field: 94 (Food Service).

Description

Summary: Procures, prepares, and cooks food; identifies and uses appropriate equipment. *Skill Level 10:* Either has undergone on-the-job training program in food preparation and serving techiques or has recently completed a program of instruction in the basic principles of food preparation and service; under the supervision of an experienced cook, weighs, blends, mixes, and cooks food in accordance with prescribed procedures; washes, peels, cuts, and dices fruits, vegetables, meats, salads, and dairy products; prepares simple soups, sauces, and gravies; under the supervision of an experienced baker, prepares simple baked items, including breadstuffs and desserts; assists in receiving and storing food and supplies; operates and performs preventive maintenance on food service equipment; portions and serves food on serving line; applies required sanitation procedures in handling, storing, preparing, and serving food. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel; prepares meats, fruits, vegetables, salads, desserts, beverages, and dairy products for serving; performs small-scale baking and meat cutting; operates and performs preventive maintenance on kitchen equipment; has knowledge of hygiene and sanitation procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises, as first cook, the scheduling of personnel and facilities and the preparation of foods; inspects food prior to serving; supervises procurement and storage of foods. Alternative job paths are available with assignment either as cook (leading to dining facility manager) or as meatcutter (leading to chief meatcutter). *Skill Level 40:* Able to perform the duties required for Skill Level 30; develops work sheet according to master menu; maintains records and files; applies accounting procedures to operate within budget; prepares reports; serves as dining facilities manager. *Skill Level 50:* Able to perform the duties required for Skill Level 40; has management responsibilities at the staff level, including developing plans and conducting evaluations; develops, coordinates, implements, and advises on food programs; evaluates operation of dining and serving areas, kitchens, field bakeries, and food service training facilities, and maintenance of equipment; is a member of the menu board; assists in menu development; may be in complete charge of food service operations during partial unit deployment or at a large facility with multiple food service outlet; prepares reports and studies on food service activities.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in quantity food preparation, 1 in kitchen operations, and 1 in food service operations, for a total of 5 semester hours (11/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operation, and 1 in food service operation, for a total of 10 semester hours (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 1 in food service operations; and 2 additional semester hours in food service operations *if duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in personnel supervision, 3 for field experience in food service, and 1 in food service operations; and 2 additional semester hours in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 21 semester hours (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 3 for field experience in food service, and 1 in food service operations; and 2 additional semester hours in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 24 semester hours (11/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 3 in report writing, 3 in communication skills (oral), 3 for field experience in food service, and 1 in food service operations; and 2 additional semester hours in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours for a food service internship (11/77).

MOS-94D-001

BAKER

94D20
94D40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 94D was discontinued and its functions were incorporated into MOS 94B, Food Service Specialist.)

Career Management Field: 94 (Food Service).

Description

Summary: Prepares and bakes breads and pastries, using and maintaining specialized bakery equipment. *Skill Level 20:* Able to perform the duties required for 94B10 (Food Service Specialist); identifies, measures, and incorporates ingredients into breads or pastry doughs; controls times and temperatures of mixing and fermentation periods; divides, molds, and shapes breads and pastry products; prepares fillings and icings and fills and decorates baked pastries; slices and wraps baked bread; operates and performs preventive maintenance on all bakery equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the operating shifts in the preparation of breads and pastries; maintains the daily ingredient consumption and production schedules; instructs lower-skill-level personnel in acceptable baking techniques and in the proper operation of equipment; adjusts baking formulas, production processes and procedures to changing conditions; inspects personnel, supply and baking areas, and equipment for cleanliness and proper operation; may participate in site selection of field bakeries.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in baking and bakery operations, 3 in quantity food preparation, 1 in kitchen operations, and 2 in food service operations, for a total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in baking and bakery operations, 3 in quantity food preparation, 1 in kitchen operations, 2 in food service operations, and 2 in bookkeeping, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in baking and bakery operations, 3 in quantity food preparation, 3 for an internship in baking, 3 in personnel supervision, 3 in human relations, 1 in records administration, 1 in kitchen operations, and 2 in food service operations, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for an internship in bakery operations (5/76).

MOS-94F-001

HOSPITAL FOOD SERVICE SPECIALIST

94F20
94F40
94F50

Exhibit Dates: 10/73–8/76.

Career Management Field: 94 (Food Service).

Description

Summary: Assists in the planning and implementation of the food service program in hospitals; prepares, cooks, and serves foods to patients and staff. *Skill Level 20:* Able to perform the duties required for 94B10 (Food Service Specialist); measures, weighs, blends, and mixes various foodstuffs; roasts, fries, broils, boils, and stews meats; prepares fruits, vegetables, salads, desserts, beverages, and dairy products; bakes yeast breads, quick breads, pies, cakes, and cookies; sets up and serves regular and modified diets for patients; assembles and checks patient trays; instructs patients on modified diets to aid them in food selection; maintains records as to patient food preferences and diet changes and adjusts diet menus; prepares food in accordance with instructions from dietition or physician; performs preventive maintenance on kitchen equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises food production or diet therapy activities in a hospital; plans and prepares hospital menus for regular and modified diets and estimates the number of persons to be fed; schedules and supervises food preparation; inspects food preparation for conformance with dietetic requirements, and quality and quantity standards; inspects prepared food for palatability and appearance and to determine conformance with menus and recipes; inspects hospital food service facilities and initiates appropriate corrective action to remove deficiencies; supervises procurement, storage, distribution, accounting for, and serving of food in a hospital food service; conducts classroom and on-the-job training for subordinate personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; directs the operation of a hospital food service; implements preventive medical and environmental hygiene practices; advises superiors on food service equipment layout and space design; prepares budgets, reports, accounting reports, and audits for the hospital food service; supervises the preparation of purchase requisitions for hospital food service supplies and equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 3 in food service operations, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, 2 in nutrition, 2 in diet therapy, and 1 in menu planning, for a total of 17 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, 2 in bookkeeping, and 1 in hygiene and sanitation, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours for a food service internship, 6 in quantity food preparation, 3 in personnel supervision, 3 in menu planning, 3 in human relations, 3 in kitchen operations, 3 in food service operations, 2 in nutrition, 2 in diet therapy, 2 in accounting, 2 in purchasing, and 1 in hygiene and sanitation, for a total of 36 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in food service equipment layout design, 3 in records administration, 3 in industrial arts education (food service), and 1 in diet therapy, for a total of 19 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, and 2 in bookkeeping, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in menu planning, 3 in personnel supervision, 3 in human relations, 3 in kitchen operations, 3 in food service operation, 2 in nutrition, and

2 in diet therapy, for a total of 31 semester hours. In the upper-division baccalaureate category, 6 semester hours for a food service internship (5/76).

MOS-94F-002

Hospital Food Service Specialist

94F10
94F20
94F30
94F40
94F50

Exhibit Dates: 9/76–Present.

Career Management Field: 94 (Food Service).

Description

Summary: Assists in the planning and implementation of the food service program in hospitals; prepares, cooks, and serves food to patients and staff. *Skill Level 10:* Measures, weighs, blends, and mixes various foodstuffs; roasts, fries, broils, boils, and stews meats; prepares fruits, vegetables, salads, desserts, beverages, and dairy products; bakes yeast breads, quick breads, pies, cakes, and cookies; sets up and serves regular and modified diets for patients; assembles and checks patient trays; instructs patients on modified diets to aid them in food selection; maintains records as to patient food preferences and diet changes and adjusts diet menus; prepares food in accordance with instructions from dietitian or physician; performs preventive maintenance on kitchen equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; ensures adherence to procedures, temperatures, and time periods in food preparation; writes and adjusts individual standard diet menus; participates in planning of food service activities; conducts food acceptability studies; applies storage standards; completes food production forms and records; monitors tasks in support of patient tray service operation, including preparation, assembly, and delivery to wards. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises food production or diet therapy activities in a hospital; plans and prepares hospital menus for regular and modified diets and estimates the number of persons to be fed; schedules and supervises food preparation; inspects food preparation for conformance with dietetic requirements and for quality and quantity standards; inspects prepared food for palatability and appearance and to determine conformance with menus and recipes; inspects hospital food service facilities and initiates appropriate corrective action to remove deficiencies; supervises procurement, storage, distribution, accounting for, and serving of food in a hospital food service; conducts classroom and on-the-job training for subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs supervisory duties; develops, coordinates, implements, and advises on food programs; evaluates and designs improvements in food programs and training programs; assists in preparation of hospital food service budget. *Skill Level 50:* Able to perform the duties required for Skill Level 40; prepares budget and determines financial requirements; instructs military and civilian personnel; utilizes office management techniques; advises superiors on food service equipment layout and space design.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in quantity food preparation. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 2 in diet therapy, and 1 in food service administration and sanitation, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in quantity food preparation and 3 in kitchen operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 2 in diet therapy, and 1 in food service administration and sanitation, for a total of 15 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in quantity food preparation and 3 in kitchen operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 2 in diet therapy, 2 in personnel supervision, and 1 in food service administration and sanitation, and additional credit in menus planning, food service operation, and for a food service internship on the basis of institutional evaluation, for a minimum total of 17 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 2 in bookkeeping, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 2 in diet therapy, and 1 in food service administration and sanitation, and additional credit in menu planning, in food service operation, and for a food service internship on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, credit for a food service internship on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 2 in diet therapy, 1 in accounting, and 1 in food service administration and sanitation, and additional credit in menu planning, in food service operations, and for a food service internship on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in food service equipment layout design, and additional credit in introduction to management, industrial arts (food service), and diet therapy on the basis of institutional evaluation, for a minimum total of 9 semester hours (6/77).

MOS-94Z-001

Food Service Supervisor

94Z50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 94Z was discontinued and its functions were incorporated into MOS 94B, Food Service Specialist.)

Career Management Field: 94 (Food Service).

Description

Able to perform the duties required for 94B40 (Food Service Specialist) or 94D40 (Baker); supervises food preparation and food service activities; supervises procurement, storage, distribution, receipt, preparation, and serving of food; evaluates and designs improvements to the food program; prepares reports and studies on food service activities and programs; supervises food cost control system, accounting, and monetary allowance ration; computes nutrition requirements; develops or analyzes menus; supervises field feeding operations and the maintenance of field equipment.

Recommendation

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, and 1 in hygiene and sanitation, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in personnel supervision, 3 in menu planning, 3 in human relations, 3 in kitchen operations, 3 in food service operations, 2 in accounting, 2 in purchasing, and 1 in hygiene and sanitation, for a total of 32 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in records administration, 3 in industrial arts education (food service), and 3 in food service equipment layout design, for a total of 18 semester hours (5/76).

MOS-95B-001

Military Policeman

95B10
95B20
95B40
95B50

Exhibit Dates: 10/73–8/75.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Functions as a police officer, controlling vehicular traffic, investigating crimes, and safeguarding lives and property in a community setting; functions as a guard for a detention facility or temporary confinement facility, controlling property and dangerous and hostile personnel by serveillance, searching, and movement control; conducts inspections of and writes technical reports on, problematical social interaction; presents evidence and testifies in court. *Skill Level 10:* Under supervision functions as a police patrolman. *Skill Level 20:* Functions as a senior police patrolman on a team or alone; conducts preliminary investigations. *Skill Level 40:* Functions as a first-line supervisor, overseeing several police officers; reviews written reports; maintains record systems. *Skill Level 50:* As an administrator and planner at the mid-management level, oversees first-line supervisors of police organizations or units; knows and applies personnel and office management principles. NOTE: May have progressed to 95B50 from 95B40 or 95D20, 95D30, or 95D40 (Assistant Special Agent).

Recommendation, Skill Level 10

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 3 semester hours in law enforcement, police administration, or criminology (1/75).

Recommendation, Skill Level 20

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 6 semester hours in law enforcement, police administration, or criminology (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 9 semester hours in law enforcement, police administration, or criminology (1/75).

Recommendation, Skill Level 50

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 12 semester hours in law enforcement, police administration, or criminology (1/75).

MOS-95B-002

MILITARY POLICE

95B10
95B20
95B30
95B40
95B50

Exhibit Dates: 9/75–8/78.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Performs law enforcement and traffic control duties; provides security for temporary detention facilities, individuals, and urban or industrial communities; conducts arrests, searches and seizures of persons and property in consonance with current legal rulings; collects evidence and testimony for presentation in court; maintains records for the law enforcement component of the criminal justice system. *Skill Level 10:* Performs as a trainee policeman under close supervision. *Skill Level 20:* Serves as a senior policeman on a team or alone; prepares records and reports. *Skill Level 30:* Is a first-line supervisor of small groups of policemen; maintains record system and reviews reports; conducts crime prevention briefings; performs preliminary investigations. *Skill Level 40:* As a mid-level manager, supervises and directs the police operations of a larger police organization; reviews reports and maintains records; assists in the planning, coordination, and administration of police activities. *Skill Level 50:* Serves as the principal administrator of a police organization, correctional facility, or criminal investigation agency; coordinates, inspects, and directs subordinates. NOTE: May have progressed to 95B50 from 95B40, 95C50 (Correctional Specialist), or 95D40 (Assistant Special Agent).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in police science, law enforcement, or criminology on the basis of institutional evaluation (11/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in police science, law enforcement, or criminology (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 6 semester hours in police science, law enforcement, or criminology (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, in the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 12 semester hours in police science, law enforcement, or criminology (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 12 semester hours in police science, law enforcement, or criminology, 3 for field experience in management, and 3 in introduction to management, for a total of 18 semester hours (11/75).

MOS-95B-003

MILITARY POLICE

95B10
95B20
95B30
95B40
95B50

Exhibit Dates: 9/78–Present. Pending evaluation.

MOS-95C-001

CORRECTIONAL SPECIALIST

95C10
95C20
95C30
95C40
95C50

Exhibit Dates: 9/75–Present.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Functions as a correctional officer, providing rehabilitative, health, welfare, and security services to prisoners within a correctional facility; conducts inspections; prepares written reports; coordinates activities of inmates and facility staff personnel. *Skill Level 10:* Under supervision, functions as a detention guard or correctional officer. *Skill Level 20:* Functions as a correctional officer; provides individual counseling and guidance to prisoners within a rehabilitative program. *Skill Level 30:* Functions as a first-line supervisor of up to ten correctional officers; prepares or reviews reports and records of individuals and programs; provides formal counseling. *Skill Level 40:* As a mid-level manager, supervises and coordinates all correctional, custodial, treatment, and rehabilitative activities of inmates and up to 100 staff members in a local correctional facility containing as many as 250 prisoners; responsible for administrative inspection and review of all records, reports, and activities; furnishes recommendations to superiors regarding clemency, restoration to duty, and further treatment of inmates; advises superior on matters concerning enlisted personnel under his supervision. *Skill Level 50:* Supervises and coordinates inmate and staff activities in a large consolidated correctional facility; as an administrator, plans, coordinates, and implements all counseling, rehabilitative, and correctional programs in a permanent facility containing 250 or more prisoners; equivalent to a federal maximum security prison warden.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in corrections or criminology (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in corrections or criminology. In the upper-division baccalaureate category, 3 semester hours in correctional administration and 3 in criminology (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in corrections or criminology. In the upper-division baccalaureate category, 6 semester hours in correctional administration, 3 in criminology, and 3 in introduction to management, for a total of 12 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 18 semester hours in corrections or criminology. In the upper-division baccalaureate category, 6 semester hours in correctional administration, 3 in criminology, 3 in introduction to management, and 6 for field experience in management, for a total of 18 semester hours (11/75).

MOS-95D-001

ASSISTANT SPECIAL AGENT

95D10
95D20
95D30
95D40

Exhibit Dates: 9/75–8/78.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Investigates incidents and offenses, and inquires into complaints involving government property and soldiers. *Skill Level 10:* Under extremely close supervision, performs criminal investigations and physical and personal security activities; prepares reports and sketches; operates cameras and surveillance equipment; uses small arms weaponry; arrests, searches, and interviews suspects; helps prepare legal cases; gives court testimony and presentations. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under close supervision, conducts criminal investigations, physical and personal security activities, and crime prevention programs; prepares and reviews case reports and sketches of crime scenes; supervises the use of cameras and surveillance equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; under general supervision, conducts criminal investigations, physical and personal security activities, and crime prevention programs; performs as the senior member of an investigation team responsible for arrest, search, and interview of violators of laws; prepares and presents oral and physical evidence in court. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as a chief assistant investigator, performs as sole resident agent at isolated locations or supervises lower-ranked investigators; supervises or performs criminal investigations, physical and personal security activities, and crime prevention programs; reviews, prepares, and maintains case and office records; prepares cases for presentation in court; maintains custody of evidence.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in police science and administration, law enforcement, or criminology. In the upper-division baccalaureate category, credit in police science and administration, law enforcement, or criminology on the basis of institutional evaluation (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in police science and administration, law enforcement, or criminology. In the upper-division baccalaureate category, credit in police science and administration, law enforcement, or criminology on the basis of institutional evaluation (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in police science and administration, law enforcement, or criminology. In the upper-division baccalaureate category, credit in police science and administration, law enforcement, or criminology on the basis of institutional evaluation (12/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 15 semester hours in police science and administration, law enforcement, or criminology, 3 in police supervision, and 3 in office management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in public administration, and additional credit in police supervision and in criminology, law enforcement, or police science and administration on the basis of institutional evaluation (12/75).

MOS-95D-002

Special Agent

95D10
95D20
95D30
95D40

Exhibit Dates: 9/78–Present. Pending evaluation.

MOS-96B-001

Intelligence Analyst

96B20
96B30
96B40
96B50

Exhibit Dates: 10/73–8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Assembles, integrates, analyzes, and disseminates intelligence information collected from tactical, strategic, and technical sources; functions as a mail examiner, file clerk, editor, and censor; analyzes intelligence information and serves as a country or geographic area specialist. *Skill Level 20:* Performs the duties of mail clerk; collects and analyzes intelligence information on unit personnel strengths and dispositions; draws maps depicting personnel and equipment locations; collates and summarizes in report form data concerning enemy organizations and personnel; edits and censors information and communications prior to publishing or broadcasting. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs the duties of intelligence analyst with minimal supervision; is a country or geographic area specialist; assists in the collection of military, economic, political, sociological, and geographic information; prepares and reads related charts, graphs, tables, and other graphic aids; extracts and collates intelligence information from various publications, documents, and media. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as a chief strategic intelligence analyst and as a first-line supervisor for intelligence operations teams at the lower unit level; supervises and coordinates the preparation of intelligence reports and prepares consolidated reports containing maps, aerial photographs, and technical data; serves as chief editor or censor for intelligence information. *Skill Level 50:* Able to perform the duties required for Skill Level 30 or 40; serves as chief operations and intelligence sergeant at military units as large as a division; supervises intelligence activities pertaining to organizations; supervises the training of tactical and technical operations of intelligence sections within high-level commands; assists superiors in the appraisal of intelligence operations and training activities; serves as instructor in intelligence procedures and operations.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices and 3 in records administration (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 3 semester hours in clerical practices, 3 in records administration, and 3 in personnel management, for a total of 9 semester hours (1/75).

Recommendation, Skill Level 50

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper division baccalaureate category, 3 semester hours in clerical practices, 3 in records administration, 6 in personnel management, and 6 for field experience in education, for a total of 18 semester hours (1/75).

MOS-96B-002

Intelligence Analyst

96B10
96B20
96B30
96B40
96B50

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence); subfield 962 (Technical Intelligence Production).

Description

Summary: Assembles, integrates, analyzes, and disseminates intelligence information collected from tactical, strategic and technical sources; analyzes intelligence information and serves as a country or geographic area specialist; may function as censor, editor, mail examiner, or file clerk. *Skill Level 10:* Processes incoming reports and messages; assists in maintaining intelligence records, files, and situation maps; assists in preparation of consolidated reports, maps, overlays, and aerial photographs; proofreads and assembles individual intelligence reports; safeguards classified information; assists in integration of information. *Skill Level 20:* Able to perform the duties required for Skill Level 10; analyzes intelligence holdings and identifies intelligence collection requirements; assists in coordination with technical intelligence personnel and preparation of reports on captured enemy material; prepares drafts of intelligence reports; reads maps. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to lower-grade personnel; supervises receipts analysis, and storage of intelligence information; edits, completes, and disseminates intelligence reports; assists in conducting intelligence training programs; assists in establishing personnel security; assists in the collection of military, economic, political, sociological, and geographic information; serves as senior intelligence editor or as an intelligence team chief; supervises from four to ten individuals. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as a chief strategic intelligence analyst or as a first-line supervisor for intelligence operations teams; assists in supervision of combined information/intelligence coordination centers; conducts general intelligence training programs; supervises and coordinates the preparation of intelligence reports and prepares consolidated reports containing maps, aerial photographs, and technical data; conducts current situation briefings; may also supervise personnel holding MOS 96C (Interrogator). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as chief operations and intelligence sergeant of large military units; supervises intelligence activities; assists supervisors in the appraisal of intelligence procedures and operations; supervises the training of personnel assigned to tactical and technical operations of intelligence sections; supervises up to 200 persons. NOTE: May have progressed to 96B50 from 96B40 or 96C40 (Interrogator).

Recommendation, Skill Level 10

In the vocational cerificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices (11/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower/division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, and 1 in map reading, for a total of 7 semester hours (11/77).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, and 1 in map reading, for a total of 10 semester hours (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in oral communication, and 1 in map reading, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in oral communication, 3 in personnel supervision, and 1 in map reading, for a total of 16 semester hours (11/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 for field experience in management, and 3 for a practicum in education, for a total of 9 semester hours (11/77).

MOS-96C-001

INTERROGATOR

96C20
96C30
96C40
96C50

Exhibit Dates: 10/73-8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and conducts interrogations in foreign language; able to perform the duties required for MOS 04B (Translator-Interpreter). *Skill Level 20:* Selects persons to interrogate by examining biographical records; questions prisoners of war, enemy deserters, and civilians in foreign language; verifies information by comparison with other interrogators, documents, and intelligence reports; prepares reports on interrogations performed. *Skill Level 30:* Able to perform the duties required for Skill Level 20; participates in difficult interrogations to insure accurate exchange of ideas and information; checks interrogations for adequacy of coverage; edits translated questions, reports, and other written materials of interrogators for accuracy and clarity. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a first-line supervisor of 15 or more persons in an interrogation section; plans and organizes work schedules and assigns interrogators to specific tasks; assists officers in intelligence operations; assists with the instruction and training of interrogators; collects, prepares, and distributes material on intelligence operations; establishes and keeps file of language reference materials. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; assists superiors in intelligence operations and training situations for strategic intelligence interrogation activities; supervises and inspects duties performed by lower-skill-level personnel; collects, prepares, and distributes material and data on intelligence, operations, and training; advises company commander on all enlisted personnel matters; coordinates operation of company food service and supply activities; directs and coordinates company administration. NOTE: May have progressed to 96C50 from 96C40, 96C30, or 04C2L (Expert Linguist).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in typing, 2 in report writing, and 1 in filing, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 2 in English grammar, 2 in report writing, 2 in typing, and 1 in filing, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in interpreting. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 2 in English grammar, 2 in report writing, 2 in editing, 2 in typing, and 1 in filing, for a total of 15 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 3 in personnel supervision, 3 in human relations, 3 for field experience in management, 2 in English grammar, 2 in report writing, 2 in editing, 2 in typing, and 1 in filing for a total of 24 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, 3 in records administration, and 3 for field experience in interpreting, for a total of 18 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

MOS-96C-002

INTERROGATOR

96C10
96C20
96C30
96C40

Exhibit Dates: 9/76-Present.

Career Management Field: 96 (Military Intelligence), *subfield* 962 (Technical Intelligence Production).

Description

Summary: Conducts and supervises interrogations in foreign language; knows geography, political system, economic system, culture, and customs of the countries in which the foreign language is spoken; prepares translation reports. *Skill Level 10:* Conducts interrogations in foreign language of prisoners of war, enemy deserters, civilians, and refugees to obtain information necessary for the development of military intelligence; compares and verifies information obtained with information contained in other interrogation reports, captured documents, and intelligence reports; prepares notes and keeps detailed records on all interrogations performed; translates and prepares summaries, extracts, and full translations of written foreign material (directives, records, messages, combat orders, technical publications) into English; translates speeches, announcements, radio scripts, and other materials into foreign language for use in non-English speaking countries; types translated materials; establishes reference files of translation materials; establishes reference files of translation materials. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower grade personnel; reviews and edits translations. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to lower grade personnel; performs more difficult interrogations and translations, including scientific information; determines requirements for summaries, extracts, or complete translations of documents; performs as a team chief for interrogations and translator/interpretation functions; monitors interrogations and translations for accuracy, adequacy, and completeness; organizes and conducts on-the-job training; assists in preparation and presentation of information to superiors. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises an interrogation center or interrogation, translation/interpreter section; plans and organizes work schedules; assigns specific tasks; plans training activities; insures establishment of required files and preparation of required reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in typing, 3 in record keeping, 3 in report writing, and 2 in filing, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in typing, 3 in report writing, 3 in oral communication, and additional credit in area studies on the basis of institutional evaluation, for a minimum total of 15 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for

Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in typing, 3 in report writing, 3 in oral communication, and 3 in personnel supervision, and additional credit in area studies on the basis of institutional evaluation, for a minimum total of 18 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in personnel management, and additional credit in area studies, for field experience in management, and for a practicum, in education, on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (11/77).

MOS-96D-001

IMAGE INTERPRETER

96D20
96D40
96D50

Exhibit Dates: 10/73-8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Interprets aerial and ground imagery developed by photographic and electronic means. *Skill Level 20:* Utilizes principles and techniques of photogrammetry and employs electronic, mechanical, and optical devices to study and interpret photographs and photographed scope presentations produced by radar and infrared sensory devices; prepares map overlays, charts, mosaics, and other graphics, computes distances and field coordinates; prepares graphic and written reports on imagery interpretation findings. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises image interpretation activities; plans and organizes work schedules, assigns duties, and instructs subordinates in proper work techniques; establishes and maintains files. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager serving as the principal noncommissioned officer in a headquarters or as the first sergeant of a company; assists in planning, coordinating, and supervising all activities related to imagery interpretation; advises superiors on all personnel matters and is responsible for carrying out personnel actions; directs training; serves as inspector; prepares reports on intelligence, operations, and training; may serve as chief instructor at a formal training facility.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in map reading and 2 in mechanical drawing. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 2 in mechanical drawing, 2 in technical mathematics, and 1 in technical writing, for a total of 14 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical writing, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in mechanical drawing, and 2 in technical mathematics, for a total of 25 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in office management, and 3 for field experience in management, for a minimum total of 12 semester hours; and, *if the duty assignment was chief instructor at a formal training facility,* 3 additional semester hours for an internship in education, for a total of 15 semester hours (6/76).

MOS-96D-002

IMAGE INTERPRETER

96D10
96D20
96D30
96D40
96D50

Exhibit Dates: 9/76-Present.

Career Management Field: 96 (Military Intelligence), *subfield* 962 (Technical Intelligence).

Description

Summary: Interprets aerial and ground imagery developed by photographic and electronic means. *Skill Level 10:* Utilizes principles and techniques of photogrammetry and employs electronic, mechanical, and optical devices to study and interpret photographs; assists in preparation of map overlays, plots, mosaics, charts, and other graphics; computes distances and field coordinates; assists in the preparation of written reports on image interpretation findings. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; studies and interprets imagery produced by aerial sensor systems and handheld camera; determines physical and cultural features of the landscape; prepares maps, conducts briefings, computes areas and volumes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises image interpretation activities; prepares and edits reports; establishes and maintains report and photo library; plans and organizes work schedules and assigns duties; instructs subordinates in proper work techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning activities related to image utilization; instructs subordinates in proper image interpretation techniques; supervises preparation and maintenance of files. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager at company and higher level; prepares, coordinates, and supervises activities related to image interpretation; directs training; supervises staff and advises superiors. NOTE: May have progressed to 96D50 from 96D40, 96H40 (Aerial Sensor Specialist, OV-1D), or 17L40 (Aerial Sensor Specialist, OV-1B/C).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 2 in mechanical drawing, 2 in aerial photographic interpretation, 2 in photogrammetry, 1 in technical writing, and 1 in technical mathematics, for a total of 11 semester hours (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 2 in mechanical drawing, and 1 in technical writing, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 3 in physical geography, 2 in mechanical drawing, and 1 in technical writing, for a total of 18 semester hours (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 3 in technical writing, and 2 in mechanical drawing, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in physical geography, 3 in technical mathematics, 3 in technical writing, 3 in human relations, and 2 in mechanical drawing, for a total of 23 semester hours (11/77).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division category, 3 semester hours in management problems (11/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 in personnel management, and 3 for field experience in management, for a total of 9 semester hours; *if the duty assignment was instructor in a service school,* 6 additional semester hours for a practicum in education, for a total of 15 semester hours (11/77).

MOS-96H-001

AERIAL SENSOR SPECIALIST (OV-1D)

96H10
96H20
96H30
96H40

Exhibit Dates: 9/76-Present

Career Management Field: 96 (Military Intelligence), *subfield* (Tactical Intelligence Surveillance).

Description

Summary: Supervises or participates in aerial surveillance operations using ground data terminal systems to provide information and imagery of intelligence value. *Skill Level 10:* Performs aerial surveillance, including visual reconnaissance, search and rescue, radiological survey, and similar intelligence activities; operates aerial infrared, radar, photographic, or similar sensor systems including associated data transmission links and ground data terminal stations; performs radio communications and aids aviator in aerial navigation; performs applicable electronic counter-countermeasures; assists in image interpretations; performs operator maintenance on sensors and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; assists aviator in weather analysis, navigation computations, and aircraft preflight inspection procedures; operates or supervises the operation of aerial surveillance and associated equipment; troubleshoots sensor systems; records operation and maintenance data in equipment logs; utilizes interpretation keys in assisting image interpreter. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations and activities of a section; supervises inspections and operator maintenance of sensors and associated equipment; directs and conducts on-the-job training; assists in planning use of aerial surveillance systems; assists image interpreter in analysis and interpretation of imagery; conducts or participates in briefing headquarters staff on capabilities and limitations of aerial surveillance missions, and on the results obtained. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises aerial surveillance platoon operations; plans and organizes work schedules, assigns duties, and instructs section leaders in proper work techniques and procedures; critiques mission results; participates in planning use of aerial surveillance systems and advises commander on coordination of aerial and ground surveillance; coordinates personnel, equipment, operational supply, and maintenance support requirements.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in general mathematics, 1 in still camera techniques, and 1 in electric circuits, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 1 in still camera techniques, 1 in electric circuits, and 1 in maps and air photos, for a total of 9 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 2 in maps and air photos, 2 in human relations, 2 in communications skills, 2 in personnel supervision, 1 in still camera techniques, and 1 in electric circuits, for a total of 19 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 3 in human relations, 3 in communication skills, 3 in personnel supervision, 2 in maps and air photos, 1 in still camera techniques, and 1 in electric circuits, for a total of 22 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

MOS-96Z-001

INTELLIGENCE SENIOR SERGEANT

96Z50

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence); Subfield 960 (General Tactical Intelligence).

Description

Supervises intelligence collection, analysis, processing, and surveillance activities at group, division, corps, or comparable higher headquarters; supervises training activities; supervises tactical and technical operations; assists commissioned officers in appraisal of intelligence operations and training; instructs in specific phases of command intelligence procedures; supervises collection, preparation, and distribution of intelligence, operations, and training data; advises supervisors on matters concerning intelligence, operations, and administration. NOTE: May have progressed to 96Z50 from (Intelligence Analyst), 96D50 (Image Interpreter), or 17K50 (Ground Surveillance Radar Crewman).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in oral communication, 3 in personnel supervision, and 1 in map reading, for a total of 16 semester hours. In the upper-division baccalaureate category, 6 semester hours for a practicum in education, 3 for field experience in management, and 3 in management problems, for a total of 12 semester hours (11/77).

MOS-97B-001

COUNTERINTELLIGENCE AGENT

97B40

97B50

Exhibit Dates: 10/73–8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Conducts investigations to determine whether laws have been violated; collects background information about individuals, groups, and organizations through surveys of public and private records, personal interviews, and surveillance techniques; operates specialized photographic and audio-visual recording equipment; conducts inspections of facilities to determine security weaknesses; maintains record systems; prepares oral and written reports; conducts briefings and classes. *Skill Level 40:* Is a first-line supervisor of an investigation or physical security team; sometimes conducts investigations without assistance. NOTE: May have progressed to 97B40 from 97C40 (Area Intelligence Specialist), 97D20, or 97D40 (Military Intelligence Coordinator). *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; plans and administers operations and training activities; supervises subordinate personnel; knows and applies office management principles. NOTE: May have progressed to 97B50 from 97B40 or 97C50 (Area Intelligence Specialist).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 3 semester hours in police administration, 2 in law enforcement, 2 in industrial security, and 2 in criminology, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in police administration, 2 in law enforcement, 2 in industrial security, 2 in criminology, 1 in personnel supervision, 1 in records administration, and 1 in communication skills, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in police administration, 3 for a practicum in management, 2 in law enforcement, 2 in industrial security, and 2 in criminology, for a total of 12 semester hours (2/75).

MOS-97B-002

COUNTERINTELLIGENCE AGENT

97B20

97B30

97B40

97B50

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence), *subfield* 961 (Controlled Intelligence).

Description

NOTE: The skill levels of MOS 97B are not necessarily indicative of progressively complex duties, increased skills, and greater responsibilities; the higher skill levels in this MOS usually indicate longer tenure. *Summary:* Conducts security oriented investigations when there is a threat to military operations, installations, and personnel; collects background information concerning foreign and domestic individuals, groups and organizations posing such a threat; collects information through personal interviews, screening of public and private records made available to them, and surveillance techniques; is knowledgeable about the geography, political and economic systems, culture and customs of at least one foreign country; operates specialized photographic and sound recording equipment; conducts physical surveys of installations and facilities to minimize threats to security; maintains files; prepares written reports and gives oral reports of findings; conducts security oriented classes and briefings; may be proficient in a foreign language. NOTE: Required to have held another MOS for at least two years prior to holding this MOS. *Skill Level 20:* Conducts counterintelligence investigations, often without close supervision; functions as a basic counterintelligence agent; applies fundamentals of military and civil law in conducting investigations; evaluates sources and information; prepares and types reports and summaries; conducts security surveys. *Skill Level 30:* Able to perform the duties required for Skill Level 10;

may provide counterintelligence support at higher headquarters; may assist in on-the-job training of newer agents; functions as chief counterintelligence agent; plans and conducts counterintelligence operations to include analyzing, selecting, exploiting, and neutralizing targets of counterintelligence interest. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may be used in a supervisory capacity; plans, organizes, and coordinates activities of counterintelligence support teams; functions as a senior counterintelligence agent. *Skill Level 50:* Able to perform the duties required for Skill Level 40; may conduct especially sensitive investigations; may be used as a staff specialist, planning and supervising intelligence operations. NOTE: May have progressed to 97B50 from 97B40 or 97C50 (Area Intelligence Specialist).

Recommendation, Skill Levels 20 and 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in United States government, 3 in applied psychology, 3 in report writing, and 1 in typing, and additional credit in personnel supervision and office management on the basis of institutional evaluation, for a minimum total of 22 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (11/77).

Recommendation, Skill Levels 40 and 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Levels 20 and 30. In the upper-division baccalaureate category, 3 semester hours in political ideologies, 3 in constitutional law, and 3 in public relations, for a total of 9 semester hours (11/77).

MOS-97C-001

AREA INTELLIGENCE SPECIALIST

97C40
97C50

Exhibit Dates: 10/73–8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and performs intelligence analysis of a geographic area; may be employed in either a group activity or individually within minimum supervision; formulates and carries out intelligence-gathering missions with a specific objective and utilizes extremely demanding operational security procedures in both domestic and foreign environments. NOTE: Many of the required duties for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 40:* May have previously held MOS 97B (Counterintelligence Agent) or MOS 97D (Military Intelligence Coordinator); performs extensive research to gain an in-depth understanding of the geography, politics, culture, technology, economics, and military and legal practices and institutions of one or more foreign nations; directs the operational or administrative activities of 1–12 U.S. or foreign personnel; performs discrete personnel investigations; may have written, oral, and/or aural skills in one or more foreign languages or dialects; understands and uses a wide variety of security techniques and procedures; uses specialized intelligence equipment, including standard and nonstandard communications and photographic equipment; may be familiar with computer usage in storing and retrieving intelligence data; identifies, assesses, and applies psychological factors which influence and motivate human behavior; writes extensive informational, operational, and administrative reports. *If duty position was Chief Area Intelligence Sergeant,* also performs the following duties: Serves as a senior area intelligence specialist; may serve as a service school instructor; may assume the duties normally assigned to Skill Level 50 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as chief area intelligence specialist; directs area intelligence activities, performing less field work; performs budget analysis and justification; coordinates the preparation of extensive reports; supervises the activities of approximately 10–40 persons; trains subordinates in the application of security procedures and intelligence-gathering techniques; may serve as first sergeant of a company.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in area studies, 3 in written communication skills, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, and additional credit in area studies on the basis of institutional evaluation, for a minimum total of 19 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation. *If duty position was Chief Area Intelligence Sergeant,* use the following recommendation: In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 9 semester hours in area studies, 3 in written communication skills, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, for a minimum total of 25 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 28 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation; additional credit in area studies, written communication skills, field experience in management, management problems, and field experience in personnel supervision (up to the amounts in the recommendation for Skill Level 50) on the basis of institutional evaluation (9/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 15 semester hours in area studies, 6 in written communication skills, 6 for field experience in management, 3 in management problems, 3 for field experience in personnel supervision, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, for a minimum total of 46 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 49 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation (9/79).

MOS-97C-002

AREA INTELLIGENCE SPECIALIST

97C30
97C40
97C50

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and performs intelligence analysis of a geographic area; may be employed in either a group activity or individually with minimum supervision; formulates and carries out intelligence-gathering missions with a specific objective and utilizes extremely demanding operational security procedures in both domestic and foreign environments. NOTE: Many of the required duties for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 30:* May have previously held MOS 97B (Counterintelligence Agent) or MOS 97D (Military Intelligence Coordinator); performs extensive research to gain an in-depth understanding of the geography, politics, culture, technology, economics, and military and legal practices and institutions of one or more foreign nations; directs the operational or administrative activities of 1–12 U.S. or foreign personnel; performs discrete personnel investigations; may have written, oral, and/or aural skills in one or more foreign languages or dialects; understands and uses a wide variety of security techniques and procedures; uses specialized intelligence equipment, including standard and nonstandard communications and photographic equipment; may be familiar with computer usage in storing and retrieving intelligence data; identifies, assesses, and applies psychological factors which influence and motivate human behavior; writes extensive informational, operational, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as a senior area intelligence specialist; may serve as a service school instructor; may assume the duties normally assigned to Skill Level 50 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as chief area intelligence specialist; directs area intelligence activities, performing less field work; performs budget analysis and justification; coordinates the preparation of extensive reports; supervises the activities of approximately 10–40 persons; trains subordinates in the application of security procedures and intelligence-gathering techniques; may serve as first sergeant of a company.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in area studies, 3 in written communication skills, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, and additional credit in area studies on the basis of institutional evaluation, for a minimum total of 19 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 9 semester hours in area studies, 3 in written communication skills, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, for a minimum total of 25 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 28 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation; additional credit in area studies, written communication skills, field experience in management, management problems, and field experience in personnel supervision (up to the amounts in the recommendation for Skill Level 50) on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 15 semester hours in area studies, 6 in written communication skills, 6 for field experience in management, 3 in management problems, 3 for field experience in personnel supervision, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, for a minimum total of 46 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 49 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation (6/77).

MOS-97D-001

MILITARY INTELLIGENCE COORDINATOR

97D20
97D40

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 97D was discontinued.)

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and performs the analysis of intelligence data in conjunction with counterintelligence or area intelligence operations; must be familiar with the duties required for MOS 97B (Counterintelligence Agent) and MOS 97C (Area Intelligence Specialist). NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Provides general and specialized administrative services to support the activities of 5-15 U.S. Army intelligence agents, which may include conducting document research, establishing and maintaining intelligence files, requisitioning supplies and equipment, and processing personnel actions; prepares and edits operational and administrative reports; types at a minimum speed of 25 words per minute; adheres to proper security procedures in the performance of all duties; may assist in an investigation by collecting information from public sources; may acquire proficiency in one or more foreign languages; may supervise lower-ranking personnel. *Skill Level 40:* Able to perform all of the duties of Skill Level 20; coordinates the reporting of intelligence agents' activities; may manage a military intelligence coordination office.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in written communication skills, 3 in security procedures, 2 in office practices, and 2 in typing, and additional credit in investigative report writing on the basis of institutional evaluation, for a minimum total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in security procedures, 2 in office practices, and 2 in typing, and additional credit in investigative report writing, for field experience in personnel supervision, and for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 10 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 3 in security procedures, 3 in investigative report writing, 2 in office practices, and 2 in typing, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in security procedures, 3 in investigative report writing, 3 for field experience in personnel supervision, 2 in office practices, and 2 in typing, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 19 semester hours (6/77).

MOS-98B-001

EW/CRYPTOLOGIC CRYPTANALYST
(CRYPTANALYTIC SPECIALIST)

98B20
98B40

Exhibit Dates: 10/73-2/77. (Effective 3/77, MOS 98B was discontinued and its functions were incorporated into MOS 98C, EW/Signal Intelligence Analyst).

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Conducts or supervises cryptanalysis of coded messages obtained through the interception of foreign communications. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Scans intercepted communications to isolate encrypted messages; identifies method of encryption; decodes or deciphers messages employing simple cryptographic systems; uses automatic data processing techniques to aid in the analysis of encrypted messages; reduces decoded and deciphered data into automatic data processing format; prepares reports and maintains support files and records; types at a minimum rate of 25 words per minute; may acquire a technical vocabulary in a foreign language. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the processing, analysis, and reporting of encrypted foreign communications; performs cryptanalysis of messages employing complex encryption systems; prepares technical intelligence reports and presents oral reports on cryptanalytic activities; coordinates cryptanalytic activities with other signal intelligence activities; develops new cryptanalytic approaches and methods to insure maximum utilization of personnel and efficiency of operations; performs statistical tests and studies.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 2 in geography, 1 in office practices, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 15 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in written communication skills, 3 in oral communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in oral communication skills, 3 in social sciences and humanities, 3 for field experience in personnel supervision, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in office practices, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS-98C-001

EW/SIGNAL INTELLIGENCE ANALYST

98C20
98C30
98C40

Exhibit Dates: 10/73-2/77.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises and performs analysis and reporting of intercepted foreign communications at a mobile or fixed site. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. *Skill Level 20:* Gathers, sorts, and scans intercepted messages and signals, and performs initial analysis to establish communications patterns; isolates valid message traffic; reduces communications data into automatic data processing format; operates communications equipment for reporting and coordination; types at a minimum rate of 25 words per minute; has a knowledge of the geography and culture of the area from which intercepted communications originate; may acquire a technical vocabulary in one or more foreign languages. *If duty position was Senior Traffic Analyst,* also performs the following duties: May supervise 5-8 persons; analyzes foreign communications, including encrypted communications; uses automatic data processing techniques to analyze communications; presents written and oral technical and intelligence reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises traffic analysis and provides guidance on the interpretation of collected information; devises methods for solving complex analytic problems; maintains analytic files, compiles, writes, edits, evaluates, and disseminates intelligence reports; analyzes automatic data processing results and confers with computer programmers and analysts; coordinates activities and schedules work; implements emergency action plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises traffic and signal intelligence analysis activities and coordinates collection, processing, analysis, and reporting functions; analyzes and evaluates intelligence data and releases reports; establishes and supervises training programs; supervises 18-40 persons; may serve as an operations sergeant, supervising up to 75 persons; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, and 1 in introductory mathematics, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 1 in introductory mathematics, and 1 in geography, for a total of 8 semester hours. *If the duty position was Senior Traffic Analyst,* use the following recommendation: In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum of 15 semester hours (9/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 2 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in human relations, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 2 in office practices, 2 in visual comprehension techniques, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 21 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 2 in office practices, 2 in visual comprehension techniques, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/79).

MOS-98C-002

EW/SIGNAL INTELLIGENCE ANALYST

98C10
98C20
98C30
98C40

Exhibit Dates: 3/77-Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises and performs analysis and reporting of intercepted foreign communications at a mobile or fixed site. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Gathers, sorts, and scans intercepted messages and signals, and performs initial analysis to establish communications patterns; isolates valid message traffic; reduces communications data into automatic data processing format; operates communications equipment for reporting and coordination; types at a minimum rate of 25 words per minute; has a knowledge of the geography and culture of the area from which intercepted communications originate; may acquire a technical vocabulary in one or more foreign languages. *Skill Level 20:* Able to perform the duties required for Skill Level 10; may supervise 5-8 persons; analyzes foreign communications, including encrypted communications; uses automatic data processing techniques to analyze communications; presents written and oral technical and intelligence reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises traffic analysis and provides guidance on the interpretation of collected information; devises methods for solving complex analytic problems; maintains analytic files; compiles, writes, edits, evaluates, and disseminates intelligence reports; analyzes automatic data processing results and confers with computer programmers and analysts; coordinates activities and schedules work; implements emergency action plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises traffic and signal intelligence analysis activities and coordinates collection, processing, analysis, and reporting functions; analyzes and evaluates intelligence data and releases reports; supervises 18-40 persons; may serve as an operations sergeant, supervising up to 75 persons; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, and 1 in introductory mathematics, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 1 in introductory mathematics, and 1 in geography, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 15 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 2 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in human relations, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 2 in office practices, 2 in visual comprehension techniques, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 21 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 2 in office practices, 2 in visual comprehension techniques, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS-98G-001

EW/SIGNAL INTELLIGENCE VOICE
INTERCEPTOR
98G20
98G30
98G40

Exhibit Dates: 10/73-2/77.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Conducts and supervises the interception, transcription, translation, and reporting of foreign voice transmissions in a mobile or fixed station environment. *NOTE:* Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Operates intercept receivers, including radiotelephone and multichannel systems, and recording equipment; selects, erects, and orients tactical antennas; makes written records of foreign voice transmissions which are composed of limited terminology and simple syntactic structures; identifies languages spoken in the geographic area to which assigned; categorizes foreign voice signals by type of activity; prepares voice activity records; makes verbatim translation from foreign language to English; scans written foreign language materials for key words and indicators; provides translation assistance to non-language-qualified analysts; extracts specific intelligence information from voice radio transmissions; researches and develops special project reports; presents oral reports; types in English and in language of proficiency; performs operator maintenance on equipment. *If duty position was Senior Voice Interceptor (paygrade E-5),* also performs the following duties: Intercepts, identifies, and records foreign voice transmissions; supervises a small unit; assembles, integrates, analyzes, and disseminates intelligence information covering political, economic, sociological, historical, and psychological factors of a geographic area; prepares special studies and reports as required. Must have the following minimum capabilities in at least one foreign language: vocabulary (aural recognition) of 6,000-8,000 words; 750-1,000 technical term items; knowledge of complex grammar and syntax; 85-90 percent of all existing word functions; 85-90 percent of all kinship terms; total comprehension of writing systems, except in languages with ideographic systems where the ability to write 500 and read 1,500 characters is required. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises voice communication intercept activities; operates sophisticated equipment designed to collect and simultaneously produce on-line activity records of complex foreign voice radio transmissions containing technical terminology, advanced grammar/syntax, and colloquial conversational forms; directs voice signal collection and processing activities; determines collection and processing priorities; identifies and performs limited analysis on nonclear voice and nonvoice signals; writes complex reports; makes oral presentations to general staff. Must achieve a fluent and accurate proficiency in one or more foreign languages and have the following minimum foreign language capabilities: vocabulary (aural recognition) of 8,000-10,000 words; 1,000-1,500 technical term items; advanced knowledge of grammar and syntax; 90-100 percent of all existing word functions; 90-100 percent of all existing kinship terms and forms of address; must be able to write 700 and read 2,000 characters in an ideographic writing system. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises voice communication countermeasure activities; refines essential elements of information needed to support assigned mission; performs voice intercept and processing of high military and governmental levels. Must achieve the following minimum capabilities in one or more foreign languages: vocabulary (aural recognition) of 10,000-15,000 words; 1,500-3,000 technical term items; total knowledge of word functions; total knowledge of kinship terms and forms of address; must be able to write 1,000 and read 2,500-3,000 characters in an ideographic writing system. *If paygrade E-7 has been achieved,* also performs the following duties: Serves as electronic warfare/signal intelligence voice operations chief; evaluates and defines job requirements and systems capabilities for communication intelligence linguists. Must attain a foreign language proficiency equivalent to that of a well-educated native speaker and have the following minimum capabilities; vocabulary (aural recognition) of 15,000-plus words; 3,000-plus technical term items; advanced knowledge of grammar and syntax; must be able to write 1,500 and read 2,500-3,000 characters in ideographic writing systems.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in library technology; in the upper-division baccalaureate category, 6 semester hours in written communication skills and credit in linguistics on the basis of institutional evaluation. *NOTE:* Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation. *If the duty position was Senior Voice Interceptor (paygrade E-5),* use the following recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, and 3 in geography; in the upper-division baccalaureate category, 6 semester hours in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (9/79).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 3 in social sciences and humanities, 3 in human relations, and 2 in office practices; in the upper-division baccalaureate category, 6 in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (7/79).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 6 in social sciences and humanities, 3 in human relations, 3 for field experience in personnel supervision, and 2 in office practices; in the upper-division baccalaureate category, 6 semester hours in written communication skills and 3 for field experience in management, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation. *If paygrade E-7 was achieved,* use the following recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 6 in social sciences and humanities, 3 in human relations, 3 for field experience in personnel supervision, and 2 in office practices; in the upper-division baccalaureate category, 6 for field experience in management, 3 in introduction to management, and 3 in personnel management, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (9/79).

MOS-98G-002

EW/SIGNAL INTELLIGENCE VOICE
INTERCEPTOR
98G10
98G20
98G30
98G40
98G50

Exhibit Dates: 3/77-Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Conducts and supervises the interception, transcription, translation, and reporting of foreign voice transmissions in a mobile or fixed station environment.

NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Operates intercept receivers, including radiotelephone and multichannel systems, and recording equipment; selects, erects, and orients tactical antennas; makes written records of foreign voice transmissions which are composed of limited terminology and simple syntactic structures; identifies languages spoken in the geographic area to which assigned; categorizes foreign voice signals by type of activity; prepares voice activity records; makes verbatim translation from foreign language to English; scans written foreign language materials for key words and indicators; provides translation assistance to non-language-qualified analysts; extracts specific intelligence information from voice radio transmissions; researches and develops special project reports; presents oral reports; types in English and in language of proficiency; performs operator maintenance on equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; intercepts, identifies, and records foreign voice transmissions; supervises a small unit; assembles, integrates, analyzes, and disseminates intelligence information covering political, economic, sociological, historical, and psychological factors of a geographic area; prepares special studies and reports as required. Must have the following minimum capabilities in at least one foreign language: vocabulary (aural recognition) of 6,000-8,000 words; 750-1,000 technical term items; knowledge of complex grammar and syntax; 85-90 percent of all existing word functions; 85-90 percent of all kinship terms; total comprehension of writing systems, except in languages with ideographic systems where the ability to write 500 and read 1,500 characters is required. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises voice communication intercept activities; operates sophisticated equipment designed to collect and simultaneously produce on-line activity records of complex foreign voice radio transmissions containing technical terminology, advanced grammar/syntax, and colloquial conversational forms; directs voice signal collection and processing activities; determines collection and processing priorities; identifies and performs limited analysis on nonclear voice and nonvoice signals; writes complex reports; makes oral presentations to general staff. Must achieve a fluent and accurate proficiency in one or more foreign languages and have the following minimum foreign language capabilities: vocabulary (aural recognition) of 8,000-10,000 words; 1,000-1,500 technical term items; advanced knowledge of grammar and syntax; 90-100 percent of all existing work functions; 90-100 percent of all existing kinship terms and forms of address; must be able to write 700 and read 2,000 characters in an ideographic writing system. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises voice communication countermeasure activities; refines essential elements of information needed to support assigned mission; performs voice intercept and processing of highly complex foreign voice transmissions; prepares papers for use at high military and governmental levels. Must achieve the following minimum capabilities in one or more foreign languages: vocabulary (aural recognition) of 10,000-15,000 words; 1,500-3,000 technical term items; total knowledge of word functions; total knowledge of kinship terms and forms of address; must be able to write 1,000 and read 2,500-3,000 characters in an ideographic writing system. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as electronic warfare/signal intelligence voice operations chief; evaluates and defines job requirements and systems capabilities for communication intelligence linguists. Must attain a foreign language proficiency equivalent to that of a well-educated native speaker and have the following minimum capabilities: vocabulary (aural recognition) of 15,000-plus words; 3,000-plus technical term items; advanced knowledge of grammar and syntax; must be able to write 1,500 and read 2,500-3,000 characters in ideographic writing systems.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in library technology; in the upper-division baccalaureate category, 6 semester hours in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, and 3 in geography; in the upper-division baccalaureate category, 6 semester hours in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 3 in social sciences and humanities, 3 in human relations, and 2 in office practices; in the upper-division baccalaureate category, 6 in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 6 in social sciences and humanities, 3 in human relations, 3 for field experience in personnel supervision, and 2 in office practices; in the upper-division baccalaureate category, 6 semester hours in written communication skills and 3 for field experience in management, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 6 in social sciences and humanities, 3 in human relations, 3 for field experience in personnel supervision, and 2 in office practices; in the upper-division baccalaureate category, 6 semester hours in written communication skills, 6 for field experience in management, 3 in introduction to management, and 3 in personnel management, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

MOS-98J-001

EW/Signal Intelligence
Noncommunications Interceptor
98J20
98J30
98J40
98J50

Exhibit Dates: 10/73-2/77.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates noncommunications intercept recording and analysis equipment; intercepts, identifies, interprets, and analyzes signals from noncommunications sources; operates electro-optical receiving and analysis equipment. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Erects noncommunications collection systems; conducts search for selected categories or classes of noncommunications or electro-optic signals; uses technical references and equipment to record and perform preliminary analysis and identification of intercepted signals of interest; determines line bearings of intercepted signals within specified limits; reports acquired information; posts entries and keeps logs; operates communications equipment for intelligence reporting coordination. *Skill Level 30:* Able to perform the duties required for Skill Level 20; searches for general categories or classes of noncommunications or electro-optic signals; exercises quality control over intercept effort; uses indexed data base and technical references to fix origin of intercepted signals; performs technical analysis and threat assessments; prepares intercept and analysis reports, maps, and overlays; assists with fusion product reporting; establishes and maintain files. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as a first-line supervisor of an intercept-analysis (noncommunications signals) activity; assigns search missions; intercepts and analyzes more complex noncommunications or electro-optic signals; prepares technical and administrative reports; establishes and supervises training programs; makes recommendations on the employment of noncommunications intercept units; selects and establishes operations sites; interprets and analyzes technical documents and reports; performs fusion analysis and intelligence reporting. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises noncommunications intercept, countermeasures, and analysis activities of 20 or more persons; based on requirements, determines objectives and priorities; assigns workloads and allocates resources among subordinate supervisors; coordinates activities with other units; evaluates requirements and assists in developing plans to meet future operations, personnel, and equipment needs.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in introduction to automatic data processing equipment, for a total of 8 semester hours (9/79).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in introduction to automatic data processing equipment, and 1 in office practices, for a total of 12 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 17 semester hours (9/79).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/79).

MOS-98J-002

EW/Signal Intelligence
Noncommunications Interceptor

98J10
98J20
98J30
98J40

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates noncommunications intercept recording and analysis equipment; intercepts, identifies, interprets, and analyzes signals from noncommunications sources; operates electro-optical receiving and analysis equipment. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Erects noncommunications collection systems; conducts search for selected categories or classes of noncommunications or electro-optic signals; uses technical references and equipment to record and perform preliminary analysis and identification of intercepted signals of interest; determines line bearings of intercepted signals within specified limits; reports acquired information; posts entries and keeps logs; operates communications equipment for intelligence reporting and coordination. *Skill Level 20:* Able to perform the duties required for Skill Level 10; searches for general categories or classes of noncommunications or electro-optic signals; exercises quality control over intercept effort; uses indexed data base and technical references to fix origin of intercepted signals; performs technical analysis and threat assessments; prepares intercept and analysis reports, maps, and overlays; assists with fusion product reporting; establishes and maintains files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor of an intercept/analysis (noncommunications signals) activity; assigns search missions; intercepts and analyzes more complex noncommunications or electro-optic signals; prepares technical and administrative reports; makes recommendations on the employment of noncommunications intercept units; selects and establishes operations sites; interprets and analyzes technical documents and reports; performs fusion analysis and intelligence reporting. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises noncommunications intercept, countermeasures, and analysis activities of 20 or more persons; based on requirements, determines objectives and priorities; assigns workloads and allocates resources among subordinate supervisors; coordinates activities with other units; evaluates requirements and assists in developing plans to meet future operations, personnel, and equipment needs.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in introduction to automatic data processing equipment, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 1 in office practices, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 17 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS-98Z-001

EW/Signal Intelligence Chief (EW/
Cryptologic Operations Chief)
(Signal Intelligence Operations
Chief)

98Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Serves as the principal authority on signal intelligence matters in a high-level military organization; directs signal intelligence activities and provides technical, operational, and administrative guidance to subordinate personnel; interprets all signal intelligence requirements and develops signal intelligence tasks; evaluates military posture of other nations and determines the capabilities and limitations of U.S. signal intelligence activities to meet the determined threats; reviews, evaluates, prepares, and implements plans and orders; assists high-level commanders in appraising the effectiveness of signal intelligence operations and staff; evaluates signal intelligence functions, publications, and procedures and recommends changes; advises commanders on matters of personnel welfare, morale, assignment, utilization, promotion, privileges, discipline, and training; provides written and oral evaluations of subordinate personnel; uses counseling techniques to alleviate stress among subordinates; prepares and presents written and oral reports to high-level personnel in the Department of the Army and other national agencies involved in the preparation of national security and intelligence policy; manages equipment, material, and support service resources. NOTE: May have progressed to 98Z50 from 98B40 (EW/Cryptologic Cryptanalyst), 98C40 (EW/Signal Intelligence Analyst), 98G50 (EW/Signal Intelligence Voice Interceptor), 98J40 (EW/Signal Intelligence Noncommunications Interceptor), 05H40 (EW/Signal Intelligence Morse Interceptor), or 05K40 (EW/Signal Intelligence Non-Morse Interceptor); may have acquired proficiency in one or more foreign languages through the performance of a previously held MOS. Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated.

Recommendation

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 2 semester hours in electronic systems operations, 2 in introductory mathematics, 2 in typing, 2 in introduction to automatic data processing equipment, 3 in records administration, 3 in industrial security, 3 in social sciences and humanities, 3 in geography, 3 in human relations, 3 for a counseling practicum, 3 in oral communication skills, 6 in written communication skills, 6 for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 in office management; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education. NOTE: Persons holding 98Z50 may have acquired proficiency in one or more foreign languages through the performance of a previously held MOS. Add credit for the specific foreign language(s) by referring to the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the recommendation on the basis of institutional evaluation (6/77).

Army Warrant Officer MOS Exhibits

MOS-011A-001

Military Physician's Assistant

011A0 (formerly 911A0)

Exhibit Dates: 8/73–Present.

Career Pattern

May have progressed to Military Physician's Assistant from MOS 91B (Medical Specialist), MOS 91C (Clinical Specialist), MOS 91D (Operating Room Specialist), MOS 91S (Preventive Medicine Specialist), MOS 91Z (Medical Senior Sergeant), or MOS 92B (Medical Laboratory Specialist); has from 3 to 10 years of clinical experience prior to appointment as a Physician's Assistant.

Description

Working under the guidance and supervision of a physician, provides general medical care for the sick and injured; makes diagnoses of diseases, disorders, and injuries; applies preventive, diagnostic, and therapeutic medical and surgical procedures; obtains and records medical data and case histories on prescribed forms; recognizes potential zoonotic and food-borne disease problems. NOTE: Appointment to Warrant Officer as a Physician's Assistant is based upon satisfactory completion of the two-year Physician's Assistant program of instruction at the Army's Academy of Health Sciences, Fort Sam Houston, Texas. This program consists of 52 weeks of didactic instruction and 52 weeks of clinical practicum. Didactic instruction is provided in human anatomy and physiology, clinical physiology, inorganic chemistry, biological chemistry, community health, mental health, pharmacology, clinical medicine, clinical surgery, pediatrics, pathology and laboratory practices, preventive medicine methods and practices, and medical and surgical procedures. Practica of either four weeks or six weeks duration are taken in the following clinics: obstetrics/gynecology, pediatrics, EENT (eye, ear, nose, and throat), neuro-psychiatric, dermatology, orthopedic, surgical medicine; clinical practica are also taken in preventive medicine, ambulatory care, and laboratory service.

Recommendation

In the upper-division baccalaureate category, 60 semester hours in physician assisting; *if rank was CW2*, 2 additional semester hours for field experience in management; *if rank was CW3*, 4 additional semester hours for field experience in management; *if rank was CW4*, 6 additional semester hours for field experience in management (6/77).

MOS-021A-001

Club Manager

021A0

Exhibit Dates: 8/70–Present.

Career Pattern

May have progressed to warrant officer Club Manager from enlisted MOS 00J (Club Manager).

Description

Manages the operations of U.S. Army or joint service clubs, club systems, hotels, or similar activities involving up to several thousand members; supervises all business operations of the activities, including financial operations, beverage and food services, membership activities, and social and recreational activities; knows regulations and policies governing financial management and accountability for property and funds, including in-depth knowledge of internal controls, budgeting, credit card operations, and financial statements and reports; knows fundamentals of business law and contractual relationships; knows military and civilian protocol and social customs; monitors operations to insure control of costs, waste, pilferage, inventory rotation, and accountability; has knowledge of appropriate laws, codes, and regulations; supervises purchase, storage, preparation, and service of food and beverages; monitors club operations to insure control of costs, inventory, accountability, and receipts; completes required reports; supervises catering of social functions, parties, and special events; selects and recommends contracting for entertainment groups; enforces safety requirements, club rules of conducts and dress codes; supervises, directs, and trains subordinates and civilian employees.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in report writing, 3 in communications skills (oral), 3 in food and beverage management, 3 in food and labor cost control systems, 3 in personnel supervision, and 3 in office practices, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in hotel, motel, or club management, and 3 in personnel management and training; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours (11/77).

MOS-031A-001

Bandmaster

031A0 (formerly 5241)

Exhibit Dates: 2/46–Present.

Career Pattern

Normally progresses to Bandmaster from an Army enlisted bandsman (currently any MOS in Career Management field 97, Band, which includes MOS 02B through MOS 02Z), completing from one to three preparatory programs of instruction.

Description

Possesses skills and understanding in applied music ensemble playing, basic music theory, planning concerts, conducting, etc.; acquires basic understanding of the techniques of all wind and percussion instruments; has extensive and practical experience in arranging music for bands and jazz ensembles and, in some cases, choral groups; conducts band literature equivalent to that included in upper-division and graduate courses; acquires a thorough grasp of military marching evolutions, commands, and procedure; is responsible for band administration and the supervision of the musical development of band units; directs personnel, administration, supply (uniforms, instruments, and publications), and repair and maintenance activities of band units; has fiscal control of band units; routinely serves as a company commander; may serve as an instructor in the Army element of the School of Music.

Recommendation

In the lower-division baccalaureate/associate degree category, 16 semester hours in music theory (includes harmony, sight singing, ear training, and keyboard), 8 in applied music, 4 in performing ensemble, 3 in woodwind, brass, and percussion techniques, and 3 in personnel supervision, and additional credit in applied music on the basis of institutional evaluation, for a minimum total of 34 semester hours. In the upper-division baccalaureate category, 6 semester hours in arranging, 4 in performing ensemble, 6 in conducting, 2 in marching band techniques, and 3 for field experience in management, and additional credit in introduction to management on the basis of institutional evaluation, for a minimum total of 21 semester hours; *if the duty assignment was an instructor in the Army element of the School of Music*, credit in teaching methods in music, education materials, evaluation and testing in education, and for a practicum in education on the basis of institutional evaluation, for a minimum total of 21 semester hours; *if rank was CW2*, 2 additional semester hours for field experience in management, for a minimum total of 23 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a minimum total of 25 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a minimum total of 27 semester hours. In the graduate degree category, 3 semester hours in conducting, 3 in band administration, and 2 in performing ensemble, and additional credit in educational administration on the basis of institutional evaluation, for a minimum total of 8 semester hours (4/77).

MOS-041A-001

Food Service Technician

(Food Service Advisor, 941A0)

(Food Advisor, 4114)

041A0

Exhibit Dates: 3/54–Present.

Career Pattern

May have progressed to Food Service Technician from any enlisted food service MOS: MOS 94B (Food Service Specialist), MOS 94D (Baker), MOS 94F (Hospital

Food Service Specialist), or MOS 94Z (Food Service Supervisor).

Description

Supervises and administers food service activities for installations, commands, or organizations; maintains complete operational control over facilities, personnel, and specialized equipment; supervises the procurement, storage, distribution, and preparation of foods to be served; writes reports; develops procedures for implementing policies from higher authority; uses specialized accounting methods; plans use, layout, and maintenance of food service equipment; in carrying out specialized duties, is required to devote most energies in the technical and human resource areas of food service administration; interprets contracts and monitors contractor's performance; if assigned to hospital food service duties, may be required to perform additional specialized supervisory functions in nutritional and diet therapy areas; may serve as a staff advisor to a general officer or provide technical assistance to nonappropriated-fund food service activities; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in food service management, 3 in principles of management, 3 in personnel supervision, 3 in food service equipment and layout, and 3 in business report writing, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in management problems and 2 for field experience in management; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 7 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 9 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 11 semester hours; *if duty assignment was service school instructor,* 3 additional semester hours for a practicum in education; *if assigned to a hospital as a food service technician,* 3 additional semester hours in nutrition or diet therapy (11/77).

MOS-051A-001

MORSE INTERCEPT TECHNICIAN

051A0

See the exhibit MOS-984A-001

MOS-052A-001

NON-MORSE INTERCEPT TECHNICIAN

052A0

See the exhibit MOS-985A-001

MOS-053A-001

SPECIAL IDENTIFICATION TECHNICIAN

053A0

See the exhibit MOS-986A-001

MOS-100B-001

MOS-100C-001

MOS-100D-001

MOS-100E-001

MOS-100Q-001

MOS-100R-001

UTILITY/OBSERVATION HELICOPTER PILOT
100BO

CARGO HELICOPTER PILOT

100CO

HEAVY LIFT HELICOPTER PILOT

100DO

ATTACK HELICOPTER PILOT

100EO

COMBAT SERVICE/SUPPORT FIXED WING PILOT

100QO

COMBAT SURVEILLANCE FIXED WING PILOT

100RO

Exhibit Dates: 12/68–Present.

Career Pattern: May have progressed to any warrant officer pilot MOS from any enlisted MOS.

Description

Pilots and commands specified aircraft under tactical and non-tactical conditions; transports passengers, mail, or cargo for military purposes; supervises aircraft maintenance; supervises loading and unloading to ensure load stability balance, and adherence to aircraft load limitations; may function as a service school instructor for aviators; may serve in aircraft procurement activities.

Recommendation

In the vocational certificate category, 40 to 60 hours in aviation flight technology (comparable to F.A.A. commercial and instrument ratings on category aircraft). NOTE: Knowledge and skills may be equivalent to other F.A.A. ratings (flight instructor, instrument instructor, etc.), or the applicant may be trained on additional categories of aircraft; award additional credit for these areas on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for the vocational certificate category plus 3 semester hours in general mathematics, 3 in technical writing, 3 in aviation safety, 3 in communication skills (oral), and 3 for field experience in personnel supervision. In the upper-division baccalaureate category, *if served as section or platoon chief, assistant section or assistant platoon chief, or aircraft repair technician (designated on Army records as 100BG, 100CG, etc.),* 3 semester hours in personnel management, 3 for management electives, and 3 in human relations, for a total of 9 semesters hours; *if served as instructor pilot (designated on Army records as 100BC, 100CC, etc.),* 3 semester hours on psychology electives, 3 for management electives, and 3 in human relations, for a total of 9 semester hours (7/78).

MOS-103A-001

AVIATION TECHNICIAN

103A0

See the exhibit MOS-160A-001

MOS-160A-001

AVIATION MAINTENANCE TECHNICIAN
(AVIATION TECHNICIAN)

160A0 (formerly 103A0)

Exhibit Dates: 3/75–Present.

Career Pattern

May have progressed to Aviation Maintenance Technician (160A) or Aviation Technician (103A) from MOS 67G (Airplane Repairer), MOS 67N (Utility Helicopter Repairer), MOS 67U (Medium Helicopter Repairer), MOS 67V (Observation/Scout Helicopter Repairer), MOS 67W (Aircraft Quality Control Supervisor), MOS 67X (Heavy Lift Helicopter Repairer), MOS 67Y (Attack Helicopter Repairer), MOS 67Z (Aircraft Maintenance Senior Sergeant), MOS 68B (Aircraft Power Plant Repairer), MOS 68D (Aircraft Powertrain Repairer), MOS 68F (Aircraft Electrician), MOS 68G (Aircraft Structural Repairer), or MOS 68H (Aircraft Pneudraulics Repairer).

Description

Supervises aviation maintenance and repair shops, teams, sections, or platoons which maintain or repair army rotary and fixed-wing aircraft; organizes and manages maintenance facilities, equipment, and personnel to inspect, service, test, disassemble, replace parts on, repair, reassemble, adjust, and retest aircraft or aircraft components; assigns work to subordinates and supervises work in progress, final inspection, and final testing; develops operating procedures and performs administrative duties related to supply and maintenance activities; provides technical assistance to pilots and flight crews concerning required crew maintenance of aircraft and aircraft components; interprets technical material related to aircraft maintenance.

Recommendation

In the vocational certificate category, 3 semester hours in essentials of supervision, 3 in survey of computer concepts, 3 in technical writing, 2 in maintenance shop record keeping, 2 in warehousing and storage, 2 in material handling and safety, and 3 in maintenance management and inventory control, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in shop practices and procedures, 2 in inventory management, 2 in material handling and safety, 3 in personnel supervision, 3 in survey of computer concepts, 2 in maintenance shop record keeping, and 3 in communication skills (speech/technical writing), for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives, for a total of 6 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader, section leader, or equivalent leadership position,* credit in leadership and supervision on the basis of institutional evaluation (7/78).

MOS-201A-001

METEOROLOGY TECHNICIAN

201A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Meteorology Technician from MOS 35D (Meteorological Equipment Repairman), MOS 93E (Meteorological Observer), or MOS 93F (Ballistic Meteorology Crewman or Field Artillery Meteorological Crewman).

Description

Normally serves as the chief of a meteorology section that provides ballistic meteorological data, not involving weather forecasting to artillery units; is responsible for the organization and operation of the section and its physical facilities as well as the supervision and training of enlisted specialists in the section; manages and allocates resources to install, operate, and maintain mercurial, aneroid, electronic, optical, and mechanical meteorological instruments and equipment; determines layout of ballistic meteorological stations and facilities and plans equipment installation; knows methods of observing and plotting meteorological data, inspects and tests meteorological equipment, determines operating procedures and techniques, and allocates work to subordinates; determines requirements for, procures, and manages supplies, repair parts, and equipment; supervises calibration of graphs and other recording devices; evaluates ballistic meteorological data and produces messages to be transmitted to artillery units; instructs subordinates on established maintenance techniques and operating procedures; may serve as an instructor at a formal service school; may be employed in research, development, and evaluation activities.

Recommendation

In the vocational certificate category, 2 semester hours in electronic laboratory and 1 in basic mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in industrial/human relations, 2 in electronic laboratory, 1 in basic mathematics, and 1 in meteorology, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives; *if rank was CW2,* 2 additional semester hours for field experience in management; *if rank was CW3,* 4 additional semester hours for field experience in management; *if rank was CW4,* 6 additional semester hours for field experience in management (3/77).

MOS-202A-001

BIOMEDICAL EQUIPMENT REPAIR TECHNICIAN

202A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Biomedical Equipment Repair Technician from MOS 35B (Electronic Instrument Repairman), MOS 35G (Biomedical Equipment Repairer), MOS 35S (Electronic Biomedical Equipment Repairer), MOS 35T (X-ray Biomedical Equipment Repairer), or MOS 35U (Biomedical Equipment Maintenance Chief).

Description

Organizes, supervises, and manages personnel and organizations responsible for installing, operating, maintaining, and repairing optical, dental, and medical technical diagnostic and treatment equipment; plans and develops detailed procedures for installation of instruments or equipment; develops internal operating procedures and manages allocated resources; anticipates and determines repair requirements, parts, and replacement of equipment; instructs on established maintenance techniques and operating procedures; advises on and supervises use of schematics, tube testing equipment, oscilloscopes, voltmeters, and other test equipment to isolate equipment malfunctions; inspects inoperative equipment, develops cost estimates for repair, and makes appropriate recommendations regarding repair or replacement; maintains records; distributes workload, makes final inspections; develops plans for design and layout of medical laboratory or equipment facilities; prepares drawings, sketches, notes, and materials for installation of equipment; may serve as the commander or chief of a section; may serve as a service school instructor; may perform duties in support of the procurement or research, development, test, and evaluation of medical equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in communication skills (oral and written), and 3 in record keeping, for a total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours in personnel management, 3 for field experience in management, 3 in management problems, 3 in introduction to management, 3 in public speaking, 3 in technical report writing, 3 in records administration, and 3 in office management, for a minimum total of 27 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 29 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 31 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 33 semester hours (11/79).

MOS-211A-001

TARGET ACQUISITION RADAR TECHNICIAN (FIELD ARTILLERY RADAR TECHNICIAN)

211A0

Exhibit Dates: 10/66–Present.

Career Pattern

May have progressed to Target Acquisition Radar Technician from MOS 13W (Field Artillery Target Acquisition Senior Sergeant), MOS 17B (Field Artillery Radar Crewman), MOS 17C (Field Artillery Target Acquisition Specialist), MOS 17Z (Combat Surveillance and Target Acquisition NCO), MOS 24P (Defense Acquisition Radar Mechanic), MOS 26B (Weapons Support Radar Repairman), MOS 26C (Combat Area Surveillance Radar Repairer), MOS 26D (Ground Control Approach Radar Repairer), or MOS 26W (Radar Maintenance Supervisor—Inspector).

Description

Normally serves as chief of a section or platoon engaged in maintaining and operating field artillery radars to provide target location; has a detailed knowledge of the operational aspects of field artillery radar, the technical principles of equipment construction, the scope and techniques of field artillery radar, and safety precautions relevant to operations and maintenance; advises on technical considerations involving field artillery radar; coordinates the activities of field artillery radar personnel; supervises the movement and emplacement of radar and associated equipment; interprets technical data, implements changes in inspections, repair, and test procedures, and instructs personnel on new or revised techniques of radar electronics maintenance and employment; inspects completed work and assists personnel in isolating and correcting malfunctions in equipment; must be able to transmit target and counterfire data to support artillery units; reviews maintenance records; supervises the requisitioning of tools, repair parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school, on a headquarters staff, or in research, development, test, and evaluation activities.

Recommendation

In the vocational certificate category, 6 semester hours in electronics theory and laboratory and 2 in uses of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 2 in industrial/human relations, 2 in technical report writing, and 2 in maintenance management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management; *if rank was CW2,* 2 additonal semester hours for field experience in management; *if rank was CW3,* 4 additional semester hours for field experience in management; *if rank was CW4,* 6 additional semester hours for field experience in management (3/77).

MOS-2122-001

ARMY ATTACHE ADMINISTRATIVE OFFICER

2122

See the exhibit, MOS-961A-001.

MOS-214E-001

MISSILE SYSTEM TECHNICIAN, PERSHING (FIELD ARTILLERY MISSILE SYSTEM TECHNICIAN, PERSHING)

214E0

Exhibit Dates: 12/62–Present.

Career Pattern

May have progressed to Missile System Technician, Pershing, from MOS 15E (Pershing Missile Crewman), MOS 21G (Pershing Electronics Materiel Specialist), MOS 21L (Pershing Electronics Repairman), or MOS 46N (Pershing Electrical-Mechanical Repairer).

Description

Supervises the maintenance of field artillery missiles, fire control systems, and missile launching and handling equipment; oversees assembly of missiles; supervises utilization, testing, and maintenance of tools, specialized test sets, cable sets, and warhead assemblies; inspects and directs testing, servicing, and repair of missile launching and guidance equipment; supervises maintenance of missile components, determines repair/replacement requirements, insures that repairs and adjustments are made, and makes final inspections; advises superiors on technical and tactical considerations affecting the employment of missiles; serves as a technical advisor on matters of preventive maintenance and inspection of radar, missiles, fire control systems, missile launching and handling equipment, and on-missile materiel; observes and corrects improper technical procedures and repair techniques; coordinates maintenance techniques and standards with preventive maintenance personnel to insure uniformity; implements changes in inspection, repair, and test procedures and instructs personnel on new techniques of missile maintenance and repair; insures that equipment modifications are accomplished; examines and interprets procedures, directives, schematics, and technical publications for data pertinent to the employment of radar, missiles, and related equipment and transmits data to subordinate personnel; reviews operating and maintenance records and tests equipment to ascertain adequacy of maintenance; monitors storage of missile guidance and motor sections; insures compliance with safety and security regulations and procedures; writes and reviews technical reports; reviews and consolidates requests for tools, spare parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the vocational certificate category, 3 semester hours in electronics laboratory and 1 in care and use of hand tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in technical report writing, 2 in maintenance management, and 2 in industrial/human relations, and additional credit in instructional methods on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management; *if rank was CW2,* 2 additional semester hours for field experience in management; *if rank was CW3,* 4 additional semester hours for field experience in management; *if rank was CW4,* 6 additional semester hours for field experience in management (3/77).

MOS-214G-001

MISSILE SYSTEM TECHNICIAN, LANCE
(FIELD ARTILLERY MISSILE SYSTEM TECHNICIAN, LANCE)

214G0

Exhibit Dates: 2/75–Present.

Career Pattern

May have progressed to Missile System Technician, Lance, from MOS 15D (Lance Missile Crewman) or MOS 27D (Lance Missile System Repairman).

Description

Supervises the maintenance of field artillery missiles, fire control systems, and missile launching and handling equipment; oversees assembly of missiles; supervises utilization, testing, and maintenance of tools, specialized test sets, cable sets, and warhead assemblies; inspects and directs testing, servicing, and repair of missile launching and guidance equipment; supervises maintenance of missile components, determines repair/replacement requirements, insures that repairs and adjustments are made, and makes final inspections; advises superiors on technical and tactical considerations affecting the employment of missiles; serves as a technical advisor on matters of preventive maintenance and inspection of radar, missiles, fire control systems, missile launching and handling equipment, and on-missile materiel; observes and corrects improper technical procedures and repair techniques; coordinates maintenance techniques and standards with preventive maintenance personnel to insure uniformity; implements changes in inspection, repair, and test procedures and instructs personnel on new techniques of missile maintenance and repair; insures that equipment modifications are accomplished; examines and interprets procedures, directives, schematics, and technical publications for data pertinent to the employment of radar, missiles, and related equipment and transmits data to subordinate personnel; reviews operating and maintenance records and tests equipment to ascertain adequacy of maintenance; monitors storage of missile guidance and motor sections; insures compliance with safety and security regulations and procedures; writes and reviews technical reports; reviews and consolidates requests for tools, spare parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the vocational certificate category, 3 semester hours in electronics laboratory and 1 in care and use of hand tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in technical report writing, 2 in maintenance management, and 2 in industrial/human relations, and additional credit in instructional methods on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management; *if rank was CW2,* 2 additional semester hours for field experience in management; *if rank was CW3,* 4 additional semester hours for field experience in management; *if rank was CW4,* 6 additional semester hours for field experience in management (3/77).

MOS-221B-001

MISSILE ASSEMBLY TECHNICIAN, NIKE

221B0

Exhibit Dates: 1/69–Present.

Career Pattern

May have progressed to Missile Assembly Technician, Nike, from MOS 22N (Nike-Hercules Missile-Launcher Repairman), MOS 23W (Nike Maintenance Chief), MOS 24U (Hercules Electronics Mechanic), or MOS 28M (Anti-Ballistic Missile Maintenance Specialist).

Description

Supervises the assembly, testing, and maintenance of all components of Air Defense/Ballistic Missile Defense (AD/BMD) missiles; knows operations, theory, and on-line maintenance of missile testing and servicing equipment associated with warhead sections, fuses, electronic and mechanical on-missile guidance equipment, hydraulic systems, and propulsion units; knows theory and function of hydraulic systems, vacuum tubes, solid state devices, and associated circuits and circuit elements; performs checkouts of electronic, electrical, mechanical, electromechanical, and hydraulic systems; knows authorized procedure for modifying existing equipment; knows AD/BMD missile transport, storage, and safety program regulations and policies for nuclear and explosive components; knows theory, operation, and maintenance procedures for all launching area equipment; oversees uncrating and mating of missiles, rocket motor assemblies, and warhead sections; supervises emplacement of missiles and launching area equipment in mobile air defense units; knows maintenance record keeping and inventory control procedures; trains and evaluates missile maintenance personnel in troubleshooting and maintenance procedures; advises commander on the technical and tactical aspects of missile employment, emplacement, readiness status, and firing.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in troubleshooting, 3 in technical mathematics, 3 in basic electronics, 3 in AC/DC circuit analysis, 3 in transistor theory, 3 in maintenance management, 2 in instrumentation, 2 in controls, 2 in pulse circuits, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop recordkeeping, and additional credit in controls, transistor theory, mathematics, hydraulics, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 34 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader,* credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-221C-001

MISSILE MAINTENANCE TECHNICIAN, SAFEGUARD

221C0

Exhibit Dates: 3/72–3/78.

NOTE: Effective 4/78, MOS 221C was discontinued and its functions were incorporated into MOS 221B, Missile Assembly Technician, Nike. The skills, competencies, and knowledge required to maintain the Safeguard missile are comparable to those required to maintain the Nike missile. Use the recommendation in the exhibit, MOS-221B-001.

MOS-222B-001

Missile Fire Control Technician, Nike
(Air Defense Missile Fire
Control Technician, Nike)

222B0

Exhibit Dates: 1/69–Present.

Career Pattern

May have progressed to Missile Fire Control Technician, Nike, from MOS 16Z (Air Defense Artillery Senior Sergeant), MOS 22L (Nike Test Equipment Repairman), MOS 22N (Nike-Hercules Missile-Launcher Repairman), MOS 23N (Nike Track Radar Repairman), MOS 23U (Nike High Power Radar-Simulator Repairman), MOS 23W (Nike Maintenance Chief), MOS 24P (Defense Acquisition Radar Mechanic), MOS 24Q (Nike-Hercules Fire Control Mechanic), MOS 24U (Hercules Electronics Mechanic), MOS 26H (Air Defense Radar Repairman), or MOS 34G (Fire Control Computer Repairman).

Description

Supervises the repair and maintenance of Nike air defense missile control equipment, data processing and simulator equipment, and radars; supervises the movement, emplacement, and testing of fire control and auxiliary equipment; understands theory, function, and operation of solid-state devices, associated circuits, tracking radars, acquisition radars, interrogator equipment, computer data transmission systems, tactical control circuits, counter-countermeasure systems, and power supply equipment for Nike air defense missile fire control equipment; supervises the use, testing, and maintenance of tools and test equipment used in diagnosing complex malfunctions in missile electronic ground guidance and tactical data processing equipment; monitors equipment during testing, simulations, and missile firing exercises to detect operator error and/or systems malfunctions and initiates corrective action, if required; knows regulations and procedures required for working with high voltage, electromagnetic radiation, and x-rays; supervises emplacement, testing, and maintenance of fire control equipment, advises commander on employment of counter-countermeasures; knows operation, function, and maintenance of battery terminal equipment; trains maintenance and operator personnel in Nike air defense missile fire control equipment; supervises parts inventory and supply system, including procurement for Nike air defense missile; supervises maintenance and operation inventory; evaluates effectiveness of maintenance programs, operator training, and parts and equipment supply operations; prepares reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics troubleshooting, 3 in technical mathematics, 3 in basic electronics, 3 in AC/DC circuits analysis, 3 in transistor theory, 3 in maintenance management, 2 in instrumentation, 2 in pulse circuits, 2 in digital circuitry, 2 in computer fundamentals, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop record keeping, 1 in control systems, 1 in radar/microwave theory, 1 in machine language, and additional credit in electronics, mathematics, data processing, computer science, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 39 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader,* credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-223B-001

Missile System Technician, Hawk
(Missile System Technician,
Improved Hawk)

223B0 (formerly 223D0 and
251D0)

Exhibit Dates: 10/71–Present.

NOTE: MOS 223B was established in 4/78. It is a consolidation of two previous MOS's, MOS 223D (Air Defense Missile System Technician, Improved Hawk) and MOS 251D (Air Defense Missile System Repair Technician, Improved Hawk). Because these two MOS's represented substantially the same skills, competencies, and knowledge required for MOS 223B, persons who held MOS 223D or MOS 251D are eligible for the credit recommended in this exhibit for MOS 223B. However, readers should also note that many persons who held two other previous MOS's, MOS 223C (Air Defense Missile System Technician, Hawk) and MOS 251C (Air Defense Missile Repair System Technician, Hawk) and MOS 251C (Air Defense Missile System Repair Technician, Hawk) were reassigned to MOS 223B. Because of the additional training normally required for personnel to change over from the Hawk missile system to the Improved Hawk missile system, the recommendation in this exhibit should be applied to a person who held MOS 223C or MOS 251C only after an institutional evaluation confirms that the individual acquired substantially the same skills, competencies, and knowledge described for MOS 223B.

Career Pattern

May have progressed to Missile System Technician, Improved Hawk, from any enlisted MOS in Improved Hawk or Hawk missile system repair or mechanics MOS in Career Management Field 23 (subfields 233, 234, 235, or 236).

Description

Supervises the assembly, inspection, and repair of the Improved Hawk missile system, simulator equipment, and associated test equipment; understands theory, functions, and operation of on-missile guidance equipment, ranging radars, pulse radars, launchers, fire control equipment, simulator stations, computers, and automatic data transmission systems used with the Improved Hawk air defense missile system and associated power generation and air-conditioning equipment; knows theory and functions of solid-state devices and associated circuits and circuit elements; knows how to assemble and test components of missile, radar, and fire control equipment; supervises testing of the system specialized test sets and procedures; supervises repairmen in isolating malfunctions and in repairing, adjusting, and aligning systems and system components; advises personnel on equipment modifications and of changes to inspection, repair, test, and maintenance calibration procedures; knows safety procedures and regulations pertaining to high-energy electromagnetic radiation hazards, high-voltage hazards, and high-pressure hydraulic equipment; knows missile transport and storage methods; knows operation, function, and maintenance of battery terminal equipment; trains personnel in safety and security procedures and maintenance techniques; interprets technical publications; supervises parts inventory and supply system, including procurement; reviews and prepares reports; evaluates supply and maintenance problems, advises superiors, and recommends corrective actions; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in electronics troubleshooting, 3 in basic electronics, 3 in AC/DC circuit analysis, 3 in transistor theory, 3 in instrumentation, 2 in pulse circuits, 2 in control systems, 2 in digital circuitry, 2 in computer fundamentals, 1 in radar/microwave theory, 1 in machine language, 3 in maintenance management, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop record keeping, and additional credit in electronics, mathematics, data processing, computer science, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 44 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader,* credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-223D-001

Air Defense Missile System
Technician, Improved Hawk

223D0

Exhibit Dates: 10/71–3/78.

NOTE: Effective 4/78, MOS 251D was discontinued and its functions were incorporated into MOS 223B, Missile System Technician, Improved Hawk. See the exhibit, MOS-223B-001.

MOS-224B-001

Short Range Air Defense Systems
Technician (Chaparral/Vulcan
System Technician)

224B0

Exhibit Dates: 12/68–Present.

Career Pattern

May have progressed to Short Range Air Defense Systems Technician from MOS 24M (Vulcan System Mechanic), MOS 24N (Chaparral System Mechanic), MOS 27B (Land Combat Support System Test Specialist), MOS 27F (Chaparral/Vulcan Air

Defense System Repairman or Vulcan Repairer), MOS 27G (Redeye Missile System Repairman or Chaparral/Redeye Repairer), or MOS 27Z (LCSS Missile Maintenance Chief).

Description

Supervises repair and maintenance of the Chaparral and Vulcan light air defense electronic systems and land combat support missile systems, including forward area alert radar (FAAR) and target alerting identification systems; supervises operation of maintenance shops, on-site maintenance activities, and shop quality control activities; knows theory, operation, and functioning of Chaparral/Vulcan systems and associated equipment, including test and training equipment and motor support units; has knowledge of electricity, electronics, pneumatics, hydraulics, and mechanics; reads, uses, and interprets schematic diagrams and other technical publications; uses special tools and test equipment to maintain, adjust, troubleshoot, and repair system equipment; organizes, supervises, manages, and evaluates most phases of maintenance programs peculiar to the system and to its support equipment; acts in the capacity of maintenance officer in the absence of a line officer; coordinates activities with other maintenance organizations; supervises 20–50 subordinates; advises and assists in establishing training programs for operators and crewmen; knows and provides staff supervision for supply functions; supervises inventory and purchasing of maintenance parts, tools, and equipment; knows safety procedures pertaining to the missile systems and associated equipment; writes technical and administrative reports; advises superiors on the technical and tactical capabilities, limitations, and employment of the missile systems; may serve as an instructor at a formal training school or as a technical advisor on a headquarters staff.

Recommendation

In the vocational certificate category, 6 semester hours in electricity/electronics laboratory, 5 in automotive mechanics, 5 in diesel mechanics, 5 in industrial truck mechanics, 3 in troubleshooting, 1 in shop practices and procedures, and 1 in industrial safety, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in industrial truck mechanics, 3 in basic electronics, 3 in troubleshooting, 1 in shop practices and procedures, 1 in industrial safety, 3 in maintenance management, 3 in personnel supervision, 2 in inventory management, 2 in maintenance shop record keeping, 2 in report writing, and credit in public speaking/communication on the basis of institutional evaluation, for a minimum total of 35 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader,* credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-241F-001

FIELD ARTILLERY MISSILE SYSTEM REPAIR TECHNICIAN, PERSHING

241F0

Exhibit Dates: 12/62–3/78.

NOTE: Effective 4/78, MOS 241F was discontinued and its functions were incorporated into MOS 214E, Missile System Technician, Pershing. Use the recommendation in the exhibit, MOS-214E-001, and award additional credit on the basis of institutional evaluation.

MOS-251B-001

AIR DEFENSE MISSILE SYSTEM REPAIR TECHNICIAN, NIKE

251B0

Exhibit Dates: 1/69–3/78.

NOTE: Effective 4/78, MOS 251B was discontinued and its functions were incorporated into MOS 222B, Missile Fire Control Technician, Nike. Use the recommendation in the exhibit, MOS-222B-001, and award additional credit on the basis of institutional evaluation.

MOS-251D-001

AIR DEFENSE MISSILE SYSTEM REPAIR TECHNICIAN, IMPROVED HAWK

251D0

Exhibit Dates: 10/71–3/78.

NOTE: Effective 4/78, MOS 251D was discontinued and its functions were incorporated into MOS 223B, Missile System Technician, Improved Hawk. See the exhibit, MOS-223B-001.

MOS-252A-001

CALIBRATION AND REPAIR TECHNICIAN (CALIBRATION TECHNICIAN)

252A0

Exhibit Dates: 8/71–Present.

Career Pattern

May have progressed to Calibration Technician, from MOS 35H (Calibration Specialist).

Description

Supervises or accomplishes repair and calibration of precision equipment used for the measuring, testing, controlling and indicating of temperature, pressure, vacuum, fluid flow, liquid level, mechanical motion, rotation, humidity, density, acidity, alkalinity, and combustion (equipment may include tools, dial pressure gauges, scales, balances, direction and sighting devices, oscilloscopes, meters, digital test equipment, signal generators, power supplies, and specialized mechanical and electronic testing equipment); maintains equipment within prescribed manufacturer standards and national or international bureau of standards tolerances and ensures that calibration surveillance standards are met; manages activities and personnel engaged in calibration of instruments or system components of all types of Army equipment and weapons. Interprets and analyzes measurement data and specifications of equipment, instruments, or gauges to conform to specified standards; develops procedures for testing and diagnosing malfunctions or implements established guidance to adjust or repair item requiring calibration; interprets technical data, schematics and transfer standards in the use and operation of this material; supervises testing systems to isolate malfunctions and faulty components; instructs subordinates on the correctional adjustments to obtain special readings or characteristics, such as frequency or inductance; certifies instruments for accuracy; may be assigned chief of section engaged in calibration activities, and may supervise up to 50 calibration technicians; may be employed as a contracting officer's representative to monitor and evaluate the performance of contractor personnel performing maintenance calibration functions for the Army; may be assigned as a service school instructor at U.S. Army or joint service schools, and typically is involved in writing of training materials and teaching of update courses to subordinates; may oversee budget of his calibration unit, oversee office, personnel, job placement, employee relations, shipping of equipment, and other essential officer-level duties.

Recommendation

In the vocational certificate category, 3 semester hours in electricity/electronics, 6 in circuits, 6 in troubleshooting techniques, 3 in electronics measurement laboratory, and 3 in technical electives, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity/electronics, 6 in circuits, 3 in troubleshooting techniques, 3 in electronics measurement laboratory, 3 in personnel supervision and human relations, and 3 in technical writing and report preparation, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in management electives and 3 in education electives; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 15 semester hours (8/79).

MOS-260A-001

NUCLEAR WEAPONS TECHNICIAN

260A0

Exhibit Dates: 3/74–Present.

Career Pattern

May have progressed to Nuclear Weapons Technician from MOS 35F (Nuclear Weapons Electronics Specialist) or MOS 55G (Nuclear Weapons Maintenance Specialist).

Description

Supervises the assembly, disassembly, inspection, test, repair, modification, maintenance, security and safety of nuclear warhead subsections, projectiles, munitions, components, and associated trainers; supervises from 8 to 40 personnel engaged in the maintenance calibration of the test and handling equipment associated with nuclear materials and weapons; determines the acceptability of nuclear warhead sections and subassemblies to assure their reliability through close supervision and personal inspection of maintenance operations, including electronic component replacement, nuclear material replacement, and proper storage and handling; ensures that equipment modifications are accomplished as announced; examines, interprets, rewrites, and disseminates technical materials for revised operating procedures, orders, technical publications, new test equipment, and new safety procedures pertinent to nuclear materials and weapons; enforces the compliance with weapons safety rules, OSHA regulations, security regulations, and unique safety requirements; performs emergency disarm and destruction of nuclear weapons, which involves handling nuclear materials and conventional high explosives; supervises all administrative duties associated with repair and maintenance, including requisitions for tools, parts, and supplies; manages personnel assignments; writes reports and maintains records; performs inspections; provides technical guidance and assistance to all support units, operating agencies and company commanders regarding all matters involving nuclear weapons.

Recommendation

In the vocational certificate category, 1 semester hour in electronic circuits, 3 in electronic measurements laboratory, 3 in explosives handling, 6 in nuclear materials handling, and 6 in nuclear security and safety procedures, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic measurements laboratory, 6 in nuclear materials handling, 6 in nuclear security and safety procedures, 3 in personnel supervision and human relations, and 3 in technical writing and report preparation, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in management electives and 3 in education electives; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 15 semester hours (8/79).

MOS-271A-001

LAND COMBAT SUPPORT MISSILE SYSTEMS REPAIR TECHNICIAN

271A0

Exhibit Dates: 10/66-Present.

Career Pattern

May have progressed to Land Combat Support Missile Systems Repair Technician from MOS 27B (Land Combat Support System Test Specialist/Lance Repairer), MOS 27D (Lance Missile System Repairman), MOS 27E (Wire-Guided Missile Systems Repairman or TOW/Dragon Repairer), MOS 27H (Shillelagh Repairer), or MOS 27Z (LCSS Missile Maintenance Chief).

Description

Manages supply, equipment, facility, and personnel assets in the maintenance and repair of land combat support missile systems (short- or medium-distance guided missile weapon systems), associated system-designed electronic test systems, and training devices; directs the activities of personnel engaged in isolating malfunctions occurring in electronic firing and guiding systems and components; analyzes complex malfunctions; supervises repair of and modifications to systems components, including guidance control systems, optical trackers, modulators, infrared sensors, conduct-of-fire trainers, missiles, and specialized test equipment; oversees supply management and preparation of work reports and maintenance records; forecasts supply requirements; insures that final inspections and checkout procedures are conducted; examines, interprets, and disseminates technical material, including orders, bulletins, and manuals; instructs enlisted specialists in troubleshooting techniques, diagnostic procedures, and the interpretation of tests on system components, circuits, and optical elements; knows techniques and safety procedures for handling explosive components; may serve as instructor at a formal training school.

Recommendation

In the vocational certificate category, 6 semester hours in electronics theory and laboratory and 2 in use of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 2 in maintenance management, and 1 in technical report writing for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours (3/77).

MOS-281A-001

RADIO REPAIR TECHNICIAN

281A0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 281A was discontinued and its functions were incorporated into MOS 286A, Communications-Electronics Equipment Repair Technician. Use the exhibit, MOS-286A-001.

MOS-282A-001

RADIO REPAIR TECHNICIAN

282A0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 282A was discontinued and its functions were incorporated into MOS 286A, Communications-Electronics Equipment Repair Technician. Use the exhibit, MOS-286A-001.

MOS-285A-001

ELECTRONIC WARFARE/INTERCEPT EQUIPMENT REPAIR TECHNICIAN (INTERCEPT REPAIR TECHNICIAN)

285A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Electronic Warfare/Intercept Equipment Repair Technician from MOS 26K (Aerial Electronic Warning/Defense Equipment Repairer) or MOS 33S (Electronic Warfare Intercept Systems Repairer).

Description

Manages personnel and equipment involved in installing, maintaining, repairing, and modifying complex electronic warfare, intercept, and related ancillary electronics equipment; applies theory and knowledge of functioning of vacuum tubes, transistors and other solid-state devices, and digital techniques; applies techniques of circuit analysis and performance measurement; keeps maintenance records; supervises requisitioning of supplies and spare parts; recommends equipment modifications; instructs repair personnel on troubleshooting and repair techniques and on specialized tests and procedures; estimates repair requirements and costs; prepares and implements maintenance schedules; advises commander on use of electronic systems and equipment; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping 3 in computer and data processing concepts, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if rank was CW2*, 2 additional semester hours for field experience in management, for a minimum total of 14 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a minimum total of 16 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a minimum total of 18 semester hours (5/78).

MOS-286A-001

COMMUNICATIONS-ELECTRONICS EQUIPMENT REPAIR TECHNICIAN (COMMUNICATIONS-ELECTRONICS REPAIR TECHNICIAN)

286A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Communications-Electronics Equipment Repair Technician from MOS 24P (Defense Acquisition Radar Mechanic), MOS 26B (Weapons Support Radar Repairman), MOS 26C (Combat Area Surveillance Radar Repairer), MOS 26D (Ground Control Approach Radar Repairer), MOS 26H (Air Defense Radar Repairman), MOS 26L (Tactical Microwave Systems Repairman), MOS 26M (Aerial Surveillance Radar Repairer), MOS 26T (Radio/Television Systems Specialist), MOS 26V (Strategic Microwave Systems Repairman), MOS 26Y (Satellite Communications Ground Station Equipment Repairman), MOS 31B (Field Communications-Electronics Equipment Mechanic), MOS 31E (Field Radio Repairman), MOS 31J (Teletypewriter Repairman), MOS 31L (Multichannel Communications Equipment Repairman), MOS 31W (Tactical Electronics Maintenance Chief), MOS 32E (Fixed Plant Carrier Repairman), MOS 32H (Fixed Station Radio Repairman), MOS 32Z (Fixed Station Chief), MOS 35E (Special Electrical Devices Repairman), MOS 35K (Avionic Mechanic), MOS 35L (Avionic Communications Equipment Repairer), MOS 35M (Avionic Navigation and Flight Control Equipment Repairer), MOS 35P (Avionic Equipment Maintenance Supervisor), MOS 35R (Avionic Special Equipment Repairer), MOS 36G (Manual Central Office Repairman), MOS 36H (Dial Central

Office Repairman), or MOS 36L (Electronics Switching Repairman).

Description

Manages personnel and equipment in the installation, maintenance, and modification of radio, radar, television, microwave, navigation, avionics, wire communication equipment, and associated tools, test sets and accessory equipment; receives and inspects equipment; prepares work assignments for subordinates; plans, coordinates, supervises, and evaluates maintenance activities; plans and implements maintenance schedules; develops repair and operating procedures and assures quality control; instructs personnel on test and maintenance procedures; supervises general technical and complex repair of communications-electronics equipment at all command levels; estimates repair requirements and costs; advises commander or staff officers on communications equipment development, procurement, capabilities, limitations and employment; may serve as service school instructor; may serve as advisor to members of allied armies; may serve with procurement; may serve in research, development, and evaluation activities related to communications equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation, for a minimum total of 12 semester hour; *if rank was CW2,* 2 additional semester hours for field experience in management, for a minimum total of 14 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a minimum total of 16 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a minimum total of 18 semester hours (5/78).

MOS-287A-001

DATA PROCESSING SYSTEMS REPAIR TECHNICIAN

287A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Data Processing Systems Repair Technician from MOS 25D (BIRDIE Repairman), MOS 25G (Mobile ADCP Monitor Repairman), MOS 25H (Radar Data Processing Equipment Repairman), MOS 25J (Operations Central Repairman), MOS 25K (AN/TSQ-51 System Repairman/Maintenance Chief), MOS 34B (Tabulating Equipment Repairman), MOS 34E (NCR 500 Computer Repairman), MOS 34F (DSTE Repairman), MOS 34G (Fire Control Computer Repairman), MOS 34H (ADMSE Repairer), MOS 34J (UNIVAC 1004/1005 DCT 9000 System Repairman), MOS 34K (IBM 360 Repairman), or MOS 34Z (ADP Maintenance Supervisor).

Description

Manages personnel and equipment involved in the installation, operation, repair, maintenance, and modification of punch card, electronic data processing, command and control systems, and ancillary equipment and tools; develops operating procedures; interprets technical data; advises and instructs repair personnel; solves unusually complex problems of diagnosis, repair, and modification; establishes repair priorities; estimates repair requirements and costs; advises commander on use, capability and limitations of data processing systems; may serve as an instructor in a service school; may serve in research, development, test and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a minimum total of 14 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a minimum total of 16 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a minimum total of 18 semester hours (5/78).

MOS-290A-001

TELECOMMUNICATIONS TECHNICIAN

290A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Telecommunications Technician from MOS 31S (Field General COMSEC Repairman), MOS 31T (Field Systems COMSEC Repairman), MOS 31U (Tactical COMSEC Maintenance Chief), MOS 32F (Fixed Ciphony Repairman), MOS 32G (Fixed Cryptographic Equipment Repairman), MOS 76D (Material Supplyman), MOS 72E (Telecommunications Center Specialist), or MOS 72G (Data Communications Switching Center Specialist).

Description

Manages and supervises personnel, equipment, and facilities for the operation of mobile and fixed communication centers or activities; supervises personnel engaged in transmitting messages and operating communications or data processing equipment; performs systems analysis; organizes communication center activities; assigns work to subordinates; plans, supervises and conducts training; assumes responsibility for accounts; is accountable for procurement, storage, and use of communications equipment; may supervise, inspect, and evaluate operations associated with automated message-processing centers and automatic digital switches or terminals; supervises testing, adjusting, and repairing of communications security equipment in either fixed locations or in logistic support facilities; may serve as a service school instructor; may serve as an advisor to members of allied armies; may serve as a commodity manager for communications sections, material, and in procurement, research, developmental, tests, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a minimum total of 14 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a minimum total of 16 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a minimum total of 18 semester hours (5/78).

MOS-301A-001

DATA PROCESSING EQUIPMENT REPAIR TECHNICIAN

301A0

Exhibit Dates: 6/61–3/78.

NOTE: Effective 4/78, MOS 301A was discontinued and its functions were incorporated into MOS 287A, Data Processing Equipment Repair Technician. Use the exhibit, MOS-287A-001.

MOS-310A-001

UTILITIES OPERATION AND MAINTENANCE TECHNICIAN

(UTILITIES MAINTENANCE TECHNICIAN)

310A0 (formerly 521A0)

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Utilities Operation and Maintenance Technician from any MOS in Career Management Field 52 (Power Production), or the following MOS's in Career Management Field 51 (General Engineering): MOS 51A (Construction and Utilities Worker), MOS 51B (Carpenter), MOS 51G (Soils Analyst), or any MOS in subfield 512 (Utilities Engineering).

Description

Manages personnel engaged in utilities operation and maintenance; performs administrative, supply management, and quality control functions which insure operation, delivery, and maintenance of utilities for an installation, hospital, or associated activity; manages and knows the fundamentals of installation, operation, and maintenance of water supply, plumbing, heating, sewage, electrical, refrigeration, air conditioning, and fire fighting systems, and power stations; estimates material and personnel requirements for maintenance and repair of utilities plants and systems; reads and interprets blueprints, schematics, and electrical diagrams; knows electrical, electronic, and mechanical theory and applications relevant to electrical power plants using steam, gas, or diesel-powered generating units; knows basic principles of military, civilian, and contractor procedures and personnel management; understands technical publications of operating principles of utilities plants and systems; diagnoses difficulties; plans maintenance and repair schedules and procedures; manages personnel and equipment engaged in the production of electrical power; determines maintenance and repair requirements and establishes work priorities; allocates maintenance and repair resources; establishes shop practices and policies; directs activities of plant and shift supervisors, electricians, mechanics, instrumentation and process control technicians, and health physics specialists; supervises installation and maintenance of high-voltage electrical power transmission lines and substations; establishes operating procedures for power plant operations, maintenance, equipment inspections, and industrial safety programs; supervises preparation of operating, malfunction, and supply reports; directs procurement and distribution of supplies, tools, and equipment; administers appropriate budgets; acts as technical advisor to commanders concerned with utilities operations; may serve as service school instructor; serves as station or power plant superintendent, power system technician, section or team chief; may directly supervise up to 100 persons; may be able to apply occupational skills to specialized features, of nuclear power plants or of ballistic missile (Safeguard System) support equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 3 in shop management, 3 in material management, 3 in personnel supervision, 3 in office administration, 3 in record keeping, 3 in technical writing, and 3 in human relations, and additional credit in ballistic missile support equipment repair and nuclear power on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 in management and training, and 2 for field experience in management, for a minimum total of 8 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 12 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 14 semester hours; *if duty assignment was service school instructor,* 6 semester hours for a practicum in education (11/77).

MOS-341A-001

Cryptographic Equipment Repair Technician

341A0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 341A was discontinued and its functions were incorporated into MOS 290A, Telecommunications Technician. Use the exhibit, MOS-290A-001.

MOS-361A-001

Fire Distribution Systems Repair Technician

361A0

Exhibit Dates: 9/62-3/78.

NOTE: Effective 4/78, MOS 361A was discontinued and its functions were incorporated into MOS 287A, Data Processing Systems Repair Technician. Use the exhibit, MOS-287A-001.

MOS-401A-001

Airdrop Equipment Technician (Airdrop Equipment Repair Technician)

(Aerial Equipment Repair Technician)

401A0 (formerly 461A0)

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Airdrop Equipment Repair Technician from MOS 43E (Parachute Rigger).

Description

Supervises preparation of equipment for airdrop, airdrop of supplies and equipment, parachute packing, and repair of parachutes and associated equipment; plans and organizes activities for repair of airdrop equipment and establishes rigging sites to support airborne operations; instructs personnel in airdrop procedures; prescribes procedures used in adjustment, care, and preservation of parachutes and other support equipment tools and machinery; provides technical guidance and serves as liaison to commanders; provides technical assistance to the personnel responsible for life cycle management of items including design, research and development, testing, supply management, and classification; responsible for providing serviceable and safe parachutes and equipment to units engaged in parachute jumping and related airdrop operations; supervises repacking of parachutes in use; coordinates loading of equipment and supplies into aircraft and participates in joint airdrop load inspections; may serve as a service school instructor; knows maintenance record keeping and inventory control procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills (oral). In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for management electives, for a total of 6 semester hours; *if rank was CW2,* 2 semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader,* additional credit in leadership and supervision on the basis of institutional evaluation (5/78).

MOS-4114-001

Food Advisor

4114

See the exhibit, MOS-041A-001

MOS-411A-001

Ammunition Technician

411A0

Exhibit Dates: 1/65-Present.

Career Pattern

May have progressed to Ammunition Technician from MOS 55B (Ammunition Specialist), MOS 55D (Explosive Ordnance Disposal Specialist), MOS 55X (Ammunition Inspector), or MOS 55Z (Ammunition Foreman).

Description

Manages personnel, equipment, supply, and facility assets for the receipt, storage, and issue of all classes of ammunition; plans, coordinates and supervises 50-150 personnel engaged in the requisitioning, receipt, inspection, surveillance, testing, maintenance, repair, modification, storage, issue, crating, packaging, transportation, and destruction of ammunition, missiles, rockets, explosive components, and non-nuclear warheads; plans for safe and efficient employment of munition and high explosives; conducts surveillance inspections and determines serviceability of conventional ammunition; monitors handling and storage of special ammunition; knows policies and procedures for technical escort of chemical, biological, and nuclear materials and radioactive wastes; provides technical assistance regarding conventional ammunition to field activities; interprets technical publications and trains enlisted specialists; classifies, evacuates, or determines disposition of captured or damaged ammunition; supervises load testing and calibration and use of ammunition test and handling equipment; participates in the investigation of accidents; prepares and reviews reports, including investigative reports; is familiar with military and civilian tariffs and the logistics of supply and transportation; insures compliance with safety and security regulations pertaining to ammunition and missiles; knows Occupational Safety and Health Act (OSHA) regulations and procedures; knows physiological effects of, protective measures against, and emergency and first aid procedures employed after exposure to toxic chemicals; knows firefighting procedures for conventional and special ammunition; plans and conducts safety programs for personnel handling ammunition and missiles; reports on problem areas related to accidents and changes to procedures for storing and handling hazardous chemicals; establishes and maintains control over ammunition stocks and insures accountability of munitions material; may serve as detachment commander, instructor at a formal service school, advisor to members of allied armies, or advisor to research, development, test, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 8 semester hours in physical science, 5 in industrial safety, 3 in basic electronics, 3 in personnel supervision, 3 in inventory management, 3 in report writing, 2 in maintenance shop record keeping, 2 in security practices, and additional credit in basic chemistry, chemistry of explosives, basic physics, nuclear physics, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management electives, and 3 in logistics management, for a minimum total of 9 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 15 semester hours; *if duty assignment was a platoon leader,* credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-421A-001

ARMAMENT REPAIR TECHNICIAN

421A0 (formerly 4808)

Exhibit Dates: 2/48-Present.

Career Pattern

May have progressed to Armament Repair Technician from an enlisted Small Arms Repairman (currently MOS 45B), Artillery Repairman (currently MOS 45L), Tank Turret Repairman (currently MOS 45K), or Armament Maintenance Foreman (currently MOS 45Z).

Description

Manages activities and personnel engaged in the maintenance and repair of small arms, artillery and armor weapons, and crew-served weapons; oversees the inspection, repair, replacement, and modification of armament materiel; supervises inspections and check-out procedures; directs shop operations including workflow planning, requisitioning parts and supplies, inspecting maintenance procedures, and providing technical assistance to maintenance personnel in artillery or armor units; must know nomenclature design, operation, and employment of the Army's current inventory of field artillery weapons, armor weapons, and small arms; trains enlisted specialists in the use of shop equipment and power tools, in inspection and test procedures, and in the disassembly, repair, and adjustment of armament materiel; uses technical publications and interprets specifications, must be able to use automated and manual systems for supply of technical publications, tools, repair parts, and related maintenance supplies; must know regulations and procedures pertaining to physical security, accountability, and shipment of weapons; may serve as chief of a team, section, or platoon in field activities; may serve as instructor in a formal training school.

Recommendation

In the vocational certificate category, 3 semester hours in the use and care of hand and power tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 3 in maintenance/shop management and record keeping, 3 in use and care of hand and power tools, and 1 in industrial safety, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training; *if rank was CW2,* 2 additional semester hours for field experience in management; *if rank was CW3,* 4 additional semester hours for field experience in management; *if rank was CW4,* 6 additional semester hours for field experience in management (3/77).

MOS-441A-001

REPAIR SHOP TECHNICIAN
(ORDNANCE SHOP TECHNICIAN)

441A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Rapair Shop Technician from MOS 43M (Fabric Repair Specialist), MOS 44B (Metal Worker), MOS 44E (Machinist), MOS 55X (Ammunition Inspector), MOS 55Z (Ammunition Foreman), MOS 63F (Recovery Specialist), MOS 63J (Quartermaster Equipment Repairman), or MOS 63Z (Mechanical Maintenance Supervisor).

Description

Supervises set-up, maintenance, and operation of machine tools used to make or repair metal parts, mechanisms, tools or machinery by application of knowledge of mechanics, shop mathematics, metal properties, and layout machinery procedures; manages service section shop engaged in metalworking, automotive component repair, and the allied trades; supervises personnel who operate general or specialized metalworking machines, such as lathes and turning machines; supervises automotive body repair and painting, glass, plastics, machine, canvas, leather, welding, and woodworking shop activities, and the recovery of all types of wheeled or track vehicles or equipment; controls work quality by instruction of subordinates and inspection of work in progress and completed work; interprets regulation orders, and specifications and demonstrates correct procedures; plans shop layout; conducts training and orientation of personnel in technical procedures and equipment innovations; directs shop operations to include supply, scheduling, workflow and personnel management; uses automated and manual systems in managing supplies of repair parts, tools, fuel, and technical publications; prepares, implements and maintains standing operating procedures for management of maintenance activities; may be employed as a service school instructor; performs other officer-level duties required by mission of the unit to which assigned.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a minimum total of 14 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a minimum total of 16 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a minimum total of 18 semester hours (5/78).

MOS-461A-001

AIRDROP EQUIPMENT REPAIR TECHNICIAN

461A0

See the exhibit, MOS-401A-001.

MOS-4808-001

ARMAMENT REPAIR TECHNICIAN

4808

See the exhibit, MOS-421A-001.

MOS-500A-001

MARINE DECK OFFICER

500A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Marine Deck Officer from MOS 57H (Terminal Operations Coordinator), MOS 61B (Watercraft Operator), MOS 61D (Amphibian Operator), or MOS 61Z (Marine Senior Sergeant).

Description

Commands Army watercraft vessels on oceans, bays, sounds, lakes, and coastal waters; is responsible for proper operation and safety of the vessel, including discipline of the crew and seaworthiness of the vessel; must know maritime law and have a working knowledge of international and inland rules of the road; is proficient in seamanship, ship handling; operates all deck machinery and equipment, including ground tackle, cargo gear, lifeboat, raft, firefighting and lifesaving equipment, emergency steering systems, and damage control; qualified to control destination of vessel, using all navigational aids, including electronic equipment (radio direction finders, radar, and fathometers); conducts radio and visual communication with government and commercial vessels and shore stations, including flashing light, semaphore, and flag-hoist signaling, using international procedures when required; knows cargo planning and stowage procedures and techniques of loading and securing cargo to ensure seaworthiness; is proficient in celestial navigation; uses navigational aids, including charts, compasses, sextants, lighthouse, and light buoys, both at sea and when approaching shore; hold qualifying license for command position, validated by the Marine Qualification Board of the Army; if holding a Masters license, must also hold radar operations qualifications.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in record keeping, and 3 in principles of management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in management electives, 3 in management problems, 3 for field experience in management, and 2 in human relations, for a minimum total of 11 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 15 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 17 semester hours (9/79).

MOS-510A-001

Marine Engineering Officer

510A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Marine Engineering Officer from MOS 61C (Marine Engineer) or MOS 61E (Amphibian Engineer).

Description

Supervises, the operation, maintenance, repair and overhaul of marine power plants, propulsion systems, heating and ventilating systems and other mechanical, plumbing, and electrical equipment in ships, docks, and marine-part facilities; inspects ship's machinery to determine compliance with maintenance standards or to determine extent, cost, and nature of repairs required; provides instruction in the proper maintenance and repair of machinery and shipboard equipment; monitors performance on repair contracts for marine repair and overhaul; supervises loading of fuel, water and ballast; maintains and records work performed and prepares maintenance reports; when assigned as marine Engineering Technician or Marine Inspector must be able to perform vessel inspections, preparation and processing of repair work orders; may serve as a school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 for field experience in management, 3 in record keeping, and 3 in principles of management, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in management electives, 3 in management problems, and 2 for field experience in management, for a minimum total of 8 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 12 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 14 semester hours (9/79).

MOS-521A-001

Utilities Operation and Maintenance Technician

(Utilities Maintenance Technician)

521A0

See the exhibit, MOS-310A-001.

MOS-5241-001

Bandmaster

5241

See the exhibit, MOS-031A-001.

MOS-561B-001

Harbormaster/Pilot

561B0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 561B was discontinued and its functions were incorporated into MOS 500A, Marine Deck Officer. Use the exhibit, MOS-500A-001.

MOS-561C-001

Vessel Master, 750 Ton Vessel

561C0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 561C was discontinued and its functions were incorporated into MOS 500A, Marine Deck Officer. Use the exhibit, MOS-500A-001.

MOS-561D-001

Master, 500 Ton Vessel

561D0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 561D was discontinued and its functions were incorporated into MOS 500A, Marine Deck Officer. Use the exhibit, MOS-500A-001.

MOS-561E-001

Master, 250 Ton Vessel

561E0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 561E was discontinued and its functions were incorporated into MOS 500A, Marine Deck Officer. Use the exhibit, MOS-500A-001.

MOS-562B-001

Chief Engineer, Unlimited

562B0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 562B was discontinued and its functions were incorporated into MOS 510A, Marine Engineering Officer. Use the exhibit, MOS-510A-001.

MOS-562C-001

Chief Engineer, 1800 Horsepower

562C0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 562C was discontinued and its functions were incorporated into MOS 510A, Marine Engineering Officer. Use the exhibit, MOS-510A-001.

MOS-562D-001

Chief Engineer, 1250 Horsepower

562D0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 562D was discontinued and its functions were incorporated into MOS 510A, Marine Engineering Officer. Use the exhibit, MOS-510A-001.

MOS-562E-001

Chief Engineer, 600 Horsepower

562E0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 562E was discontinued and its functions were incorporated into MOS 510A, Marine Engineering Officer. Use the exhibit, MOS-510A-001.

MOS-621A-001

Engineer Equipment Repair Technician

621A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Engineer Equipment Repair Technician from MOS 52C (Power Pack Specialist), MOS 52D (Power Generation Equipment Repairman), MOS 62B (Construction Equipment Repairman), or MOS 62C (Engineer Missile Equipment Specialist).

Description

Supervises personnel engaged in maintenance of engineer equipment; analyzes malfunctions and supervises minor repair and adjustment of engineer equipment utilized for power generation, earthmoving, shaping and compacting, lifting and loading, quarrying and rock crushing, asphalt/concrete mixing and surfacing, water purification, refrigeration and air conditioning, missile systems support, water gap crossing, transfer and engineer electronic application; supervises modification of equipment required by modification work orders; inspects incoming equipment to determine repair requirements; assigns work and inspects outgoing equipment; establishes maintenance and repair schedules; establishes internal administrative procedures for procurement, storage, and distribution of tools, parts, and publications.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a minimum total of 14 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a minimum total of 16 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a minimum total of 18 semester hours (5/78).

MOS-630A-001

Automotive Repair Technician

630A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Automotive Repair Technician from MOS 63F (Recovery Specialist), MOS 63G (Fuel and Electrical Systems Repairman), MOS 63H (Automotive Repairman), MOS 63J (Quartermaster Equipment Repairman), or MOS 63Z (Mechanical Maintenance Supervisor).

Description

Supervises the maintenance and repair of wheel and track vehicles and accessory equipment; inspects vehicles; prepares, implements, and maintains procedures for management of maintenance activities; interprets regulations, technical manuals, and orders pertaining to automotive and accessory equipment maintenance functions; supervises personnel assigned to maintenance sections, motor pools, or similar activities; knows the theory, function, and operation of internal-combustion engines, and the assembly, nomenclature, check-out, inspection procedures, diagnostic tests, tuning, and other adjustments of automotive and nonengineer mechanical equipment, including electrical, mechanical, hydraulic, pneumatic, and hydropneumatic subsystems; knows use of special tools and test equipment; knows emergency maintenance methods, including use of salvaged parts, reconditioning of equipment with hand tools, and substitution of parts and minor assemblies; uses automated and manual systems for supply of technical publications, tools, and repair parts; knows unit readiness reporting system; knows the use and functioning of automotive, metal, and tire shop equipment; diagnoses complex malfunctions and instructs personnel on isolation and repair of unusual malfunctions; may serve as a service school instructor; writes technical memoranda and other correspondence.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a minimum total of 14 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a minimum total of 16 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a minimum total of 18 semester hours (5/78).

MOS-631A-001

Automotive Maintenance Technician

631A0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 631A was discontinued and its functions were incorporated into MOS 630A, Automotive Repair Technician. Use the exhibit, MOS-630A-001.

MOS-632A-001

Automotive Repair Technician

632A0

Exhibit Dates: 6/61-3/78.

NOTE: Effective 4/78, MOS 632A was discontinued and its functions were incorporated into MOS 630A. Automotive Repair Technician. Use the exhibit, MOS-630A-001.

MOS-711A-001

Personnel/Administrative Technician (Personnel Technician)

(Unit Personnel Technician)

711A0

Exhibit Dates: 1/63-Present.

Career Pattern

May have progressed from any enlisted personnel MOS in Career Management Field 71 (Administration), *subfield* 712 (Personnel): MOS 75B (Personnel Administration Specialist or Unit Clerk), MOS 75C (Personnel Management Specialist), MOS 75D (Personnel Records Specialist), MOS 75E (Personnel Actions Specialist), or MOS 75Z (Personnel Senior Sergeant).

Description

Supervises administrative activities related to personnel management, including office organization and operation, counseling of personnel, and personnel records; develops input for an interprets output from automated systems supporting the personnel function; oversees the selection and use of office equipment, including typewriters, calculators, and word processing equipment; supervises military and civilian personnel engaged in specialized administrative and personnel management duties; assists in hiring and evaluating civilian employees; participates in personnel selection, duty assignment, evaluation, and training to assure full utilization of personnel; counsels personnel from a wide variety of backgrounds assisting them with career and personal decisions; makes referrals of individuals with problems to the chaplain, Judge Advocate General, medical personnel, or other appropriate agency, if necessary; initiates and prepares correspondence, messages, and reports; interprets regulations; makes decisions based on a variety of information sources and requirements; processes changes to manpower documents.

Recommendation

In the vocational certificate category, 3 semester hours in administrative office management, 3 in business communications, 3 in records management, 3 in introduction to computer concepts, and 6 for field experience in management, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative office management, 3 in business communications, 3 in records management, 3 in introduction to computer concepts, 3 in personnel supervision, and 6 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in counseling; *if rank was CW2,* 3 additional semester hours for field experience in personnel management and counseling, for a total of 9 semester hours; *if rank was CW3,* 6 additional semester hours for field experience in personnel management and counseling, for a total of 12 semester hours; *if rank was CW4,* 9 additional semester hours for field experience in personnel management and counseling, for a total of 15 semester hours; *if duty assignment was platoon leader,* additional credit in leadership and supervision on the basis of institutional evaluation. In the graduate degree category, credit for an internship in personnel management and counseling on the basis of institutional evaluation (10/77).

MOS-712A-001

General Staff Administrative Technician

712A0

Exhibit Dates: 1/63-2/79. (Effective 3/79, MOS 721A was discontinued and its duties were incorporated into MOS 711A, Personnel/Administrative Technician.)

Career Pattern

Normally progresses to General Staff Administrative Technician from Warrant Officer MOS 711A, Personnel Technician, or through demonstration of outstanding skills in stenography in an enlisted MOS.

Description

Performs general and technical administrative duties in an office headed by lieutenant generals or higher; supervises the office clerical staff; develops office procedures; prepares and reviews correspondence; researches and prepares reports, presentations, and speeches; interprets regulations and directives; coordinates with other offices to establish and maintain formal and informal lines of communication; performs some public relations and communication duties, including dealing with news media; acts as protocol officer; when assigned in foreign countries advises command officers on area geography, culture, politics, and other social factors.

Recommendation

In the vocational certificate category, 6 semester hours in public relations, 3 in business communications, 3 in report writing, 3 in office procedures, 3 in human relations skills, 3 in recordkeeping, and 3 in office management, for a total of 24 semester hours; *if the duty position requires stenography skills,* additional credit in dictation and transcription and typing on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 6 semester hours in English communication, 6 in social science, 6 in public relations, 3 in business communications, 3 in report writing, 3 in office procedures, 3 in interpersonal communication skills, 3 in recordkeeping, and 3 in office management, for a total of 36 semester hours; *if the duty position requires stenographer skills,* additional credit in dictation and transcription and typing on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours in social science electives, and 3 in protocol. In the graduate degree category, credit in management and in methods of research on the basis of institutional evaluation (10/77).

MOS-713A-001

Legal Administrative Technician

713A0

Exhibit Dates: 1/65-Present.

Career Pattern

May have progressed to Legal Administrative Technician from an enlisted legal specialist, currently MOS 71D (Legal Clerk) or MOS 71E (Court Reporter).

Description

Performs the duties of a paralegal as well as the duties of a legal administrator; manages the office of the Staff Judge Advocate or the headquarters exercising general court-martial jurisdiction; analyzes legal and administrative documents, claims, and records of court-martial and non-judicial punishment; drafts documents dealing with civil matters, such as wills, bills of sale, and separation and support agreements; interprets civil statutes and Army regulations governing the administration of military justice, contracts, and the procurement program; provides technical supervision to unit legal personnel and office staff; issues orders appointing members of courts, boards, and committees; receives, processes, and authenticates official technicial legal correspondence and makes referrals to attorneys or to other agencies when required; maintains law and administrative libraries; researches cases and other references to support legal, administrative, or military decisions; maintains statistical information; participates in manpower surveys; acts as office security manager; supervises military and civilian personnel; is directly responsible for office financial and budgetary matters; if qualified as court reporter, records legal proceedings by dictation for later transcription.

Recommendation

In the vocational certificate category, 3 semester hours in legal terminology; *if qualified as a court reporter*, 8 additional semester hours in machine shorthand, 6 in typewriting, 3 in machine transcription, 3 in introduction to court reporting, and 3 in business communications, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in principles of financial budgeting, 3 in legal terminology, 3 in law office management, 3 in trial preparation and procedures, 3 in legal research, 3 in paralegalism (duties and responsibilities of the legal assistant, code of ethics, principles of conduct, relationship to the attorney, etc.), for a minimum total of 21 semester hours; *if qualified as a court reporter*, 8 additional semester hours in machine shorthand, 6 in typewriting, 3 in machine transcription, 3 in introduction to court reporting, and 3 in business communications, for a total of 44 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management electives, and 3 in legal environment and processes, for a total of 9 semester hours; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 15 semester hours (10/77).

MOS–721A–001

Telecommunications Technician

721A0

Exhibit Dates: 9/76–3/78. Effective 4/78, MOS 721A was discontinued and its functions were incorporated into MOS 290A, Telecommunications Technician. Use the exhibit, MOS–209A–001.

MOS–741A–001

Data Processing Technician

741A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Data Processing Technician from MOS 74B (Card and Tape Writer), MOS 74D (ADPS Machine Operations Specialist), MOS 74F (Computer Programmer), or MOS 74Z (Data Processing NCO).

Description

Directs and coordinates production activities of electronic data processing element or unit including functional or machine design applications, programming, or operation of automatic data processing (ADP) equipment; analyzes, plans, and manages the development, test, evaluation, and modification of automatic data processing systems (ADPS); plans and coordinates activities of data processing personnel engaged in programming, wiring, and debugging programs; establishes work standards; supervises coding and machine processing of data and develops training programs; interprets policies, purposes, and goals of ADP activity to subordinates; participates in decisions regarding personnel staffing, allocation of ADP resources, and equipment acquisitions.

Recommendation

In the vocational certificate category, 3 semester hours in data processing principles, 3 in computer fundamentals, 3 in technical report writing, and credit in the appropriate computer languages on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing principles, 3 in computer fundamentals, 3 in technical report writing, 3 in business communications, 3 in computer operating systems, 3 in computer facility management, 3 in personnel supervision, and additional credit in the appropriate computer languages on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in computer systems and program design, 3 in personnel management, and 3 in management electives for a total of 9 semester hours; *if rank was CW2*, 2 semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3*, 4 semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4*, 6 semester hours for field experience in management, for a total of 15 semester hours (6/78).

MOS–741B–001

Data Processing Technician, PCM

741B0

Exhibit Dates: 6/61–8/76.

NOTE: In 1974, MOS 741B was discontinued and its functions were incorporated into MOS 741C, Data Processing Technician, ADPS; in 9/76, MOS 741C was incorporated into MOS 741A, Data Processing Technician. Use the exhibit, MOS–741A–001.

MOS–741C–001

Data Processing Technician, ADPS

741C0

Exhibit Dates: 6/61–8/76.

NOTE: Effective 9/76, MOS 741C was discontinued and its functions were incorporated into MOS 741A, Data Processing Technician. Use the exhibit, MOS–741A–001.

MOS–741D–001

Data Processing Technician
Programmer

741D0

Exhibit Dates: 6/61–8/76.

NOTE: Effective 9/76, MOS 741D was discontinued and its functions were incorporated into MOS 741A, Data Processing Technician. Use the exhibit, MOS–741A–001.

MOS–761A–001

General Supply Technician

(Unit Supply Technician)

761A0

Exhibit Dates: 1/71–Present.

Career Pattern

May have progressed to General Supply Technician or Unit Supply Technician from any enlisted supply MOS (currently Career Management Field 76, Supply).

Description

Administers and manages the Army supply system; maintains inventory control; supervises purchasing procedures, inventory handling and storage, recordkeeping, and stock control; is responsible for accounting and management of capital stock for units and installations; knows manual and automated property-accounting procedures; develops and administers supply budgets for units or installations; forecasts and plans supply requirements; knows how to use automatic data processing in the supply area; gives technical advice to subordinate unit and activity commanders; establishes procedures for requisitioning, receiving, storing, and issuing supplies; establishes and maintains formal and informal lines of communication with supply control, maintenance, and transportation units; with supported activities, may monitor or evaluate supply contractor's performance; prepares reports and correspondence.

Recommendation

In the vocational certificate category, 2 semester hours in keypunch, 3 in recordkeeping, 3 in technical report writing, 3 in inventory management, 3 in warehousing and storage, 3 in introduction to computer concepts, 3 in purchasing, 3 in material handling and safety, and 3 in principles of financial budgeting, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing, 3 in personnel supervision, 3 in inventory management, 3 in introduction to computer concepts, 3 in warehousing and storage, 3 in recordkeeping, 3 in purchasing, 3 in material handling, 3 in principles of financial budgeting, and 2 in keypunch, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in management electives and 3 in personnel management and training; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours (10/77).

MOS-762A-001

Support Supply Technician

762A0

Exhibit Dates: 12/71–Present.

Career Pattern

May have progressed to Support Supply Technician from MOS 761A (General Supply Technician or Unit Supply Technician) or from MOS 76D (Materiel Supplyman), MOS 76J (Medical Supplyman), MOS 76P (Stock Control Supplyman), MOS 76S (Vehicle Materiel Supply Specialist), MOS 76V (Storage Supplyman), MOS 76W (Petroleum Supply Specialist), MOS 76X (Subsistence Supplyman), MOS 76Y (Unit/Organization Supplyman), or MOS 76Z (Senior Supply Sergeant).

Description

Administers and manages the Army supply system as it applies to maintenance support units, usually at overseas locations; supervises the requisitioning, storage, distribution, and accounting of repair parts and maintenance-related supply items; knows manual and automated property accounting procedures; knows fundamentals of data processing as they apply to inventory management; knows the interrelationship of supply, maintenance, and transportation; knows policies and procedures for and interprets regulations regarding crating, packaging, preserving, shipping, and storing materiel and equipment; uses supply catalogs, technical manuals, bulletins, modification work orders, and cross-reference lists in requisitioning, receiving, storing, issuing, and identifying equipment, supplies, and repair parts; forecasts the requirements of repair parts and maintenance-related supply items; develops and administers supply budgets; inspects supported units to insure that stock levels are adequate and within prescribed limits; makes inventory recommendations; provides technical guidance to supported unit personnel; develops operating procedures and performs administrative duties related to the supply activity; evaluates efficiency and effectiveness of supply operations; prepares correspondence and reports.

Recommendation

In the vocational certificate category, 2 semester hours in keypunch, 3 in recordkeeping, 3 in technical report writing, 3 in inventory management, 3 in warehousing and storage, 3 in introduction to computer concepts, 3 in purchasing, 3 in material handling and safety, and 3 in principles of financial budgeting, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in keypunch, 3 in recordkeeping, 3 in technical report writing, 3 in inventory management, 3 in warehousing and storage, 3 in introduction to computer concepts, 3 in purchasing, 3 in material handling and safety, 3 in principles of financial budgeting, and 3 in personnel supervision, and additional credit in traffic management on the basis of institutional evaluation, for a minimum total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in management electives and 3 in personnel management and training, and additional credit in transportation and physical distribution on the basis of institutional evaluation; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a minimum total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a minimum total of 12 semester hours (10/77).

MOS-811A-001

Photomapping Technician

811A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Photomapping Technician from MOS 81C, Cartographic Specialist.

Description

Supervises activities and personnel engaged in preparation and revision of military maps, charts, and orthophotographs; supervises technical and specialized photogrammetric and drafting procedures used in the preparation of detailed military maps, mosaics, overlays, and prints; must be proficient in photogrammetric techniques and principles and know topographic drafting operations and procedures; establishes work priorities; assigns duties; solves unusual problems in map making; prepares records and reports; writes technical reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in plant management or office management, 3 in technical report writing, 3 in photogrammetry, and 3 in aerial photographic interpretation, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 for management electives, and 3 for field experience in management, for a total of 9 semester hours; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 15 semester hours (6/78).

MOS-821A-001

Survey Technician

821A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Survey Technician from MOS 82C (Field Artillery Surveyor), MOS 82D (Topographic Surveyor), or MOS 82E (Topographic Computer).

Description

Manages field-surveying activities and personnel in support of map-making and artillery survey requirements; supervises technical and special procedures employed by survey parties; knows land, highway, and topographic surveying procedures; prepares and interprets aerial photographs and topographic maps; knows basic survey methods such as traverse, triangulation, and resection; knows standard survey computing forms; knows methods for determining azimuth by astronomic or other means; uses astronomical publications such as star lists and ephemeris; coordinates the activities of crews engaged in land, highway, and topographic surveys; adapts survey methods to terrain conditions; converts grid and geographical coordinates; uses trigonometry in various calculations; interprets ground maps, aerial photographs, and map substitutes; insures exact location of points, distances, elevations, lines, areas, and contours in map-making efforts; keeps accurate records of secured data; oversees proper use of surveying instruments; verifies accuracy of data obtained from surveys; makes appropriate calculations for map-making, using reference tables, standard data, and mathematical formulas; establishes work priorities; designates survey parties and teams; solves complex and unusual problems encountered during survey operations; supervises accountability and maintenance of equipment; maintains records and reports of surveying activities; may serve as a service school instructor.

Recommendation

NOTE: Has knowledge of surveying or geodetic science equivalent to an associate degree (30–40 semester hours, depending on the general education requirements) in geometronic technology. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in management problems, 3 in quality control, 3 in records management, 3 in personnel management, 3 in supervision and leadership, and 2 for field experience in management, for a total of 20 semester hours; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 22 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 24 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 26 semester hours; and additional credit in geodetic or related sciences and cartography on the basis of institutional evaluation (11/77).

MOS-831A-001

Map Reproduction Technician

831A0

Exhibit Dates: 6/61–8/76.

NOTE: Effective 9/76, MOS 831A was discontinued and its functions were incorporated into MOS 833A, Reproduction Technician. Use the exhibit, MOS-833A-001.

MOS-832A-001

PSYOP Reproduction Technician

832A0

Exhibit Dates: 6/61–8/76.

NOTE: Effective 9/76, MOS 832A was discontinued and its functions were incorporated into MOS 833A, Reproduction Technician. Use the exhibit, MOS-833A-001.

MOS-833A-001

Reproduction Technician

833A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Reproduction Technician from MOS 83E (Platemaker) or MOS 83F (Offset Pressman).

Description
Supervises fixed and mobile platoons and teams engaged in the reproduction of maps, related material, or psychological operations material; organizes activities, schedules production, and establishes procedures; oversees maintenance of equipment; supervises reproduction of topographic maps, pictomaps, photomaps, overlays, and overprints; must know lithographic reproduction quality standards and color separation processes; prepares records and reports; writes technical reports.

Recommendation
In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in production control, 3 in technical report writing, and 6 for field experience in graphic arts, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management electives, and 2 for field experience in management, for a total of 8 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 12 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 14 semester hours (5/78).

MOS-841A-001

TERRAIN ANALYSIS TECHNICIAN

841A

Exhibit Dates: 2/80–Present. Pending evaluation.

MOS-911A-001

MILITARY PHYSICIAN'S ASSISTANT

911A0

See the exhibit, MOS-011A-001.

MOS-941A-001

FOOD SERVICE ADVISOR

941A0

See the exhibit, MOS-041A-001.

MOS-951A-001

CRIMINAL INVESTIGATOR

951A0

Exhibit Dates: 6/61–Present.

Career Pattern
May have progressed to Criminal Investigator from MOS 95B (Military Police) or MOS 95D (Assistant Special Agent).

Description
Conducts investigations and supervises technical and other personnel in the investigation of known or suspected crimes involving government property and individuals subject to military jurisdiction; examines scene of incident and collects and submits all relevant physical evidence (fingerprints, blood stains, suspected narcotics, castings, documents) to crime laboratory; studies and evaluates evidence to determine motives and responsible individuals; develops investigative plans; prepares reports of investigations; apprehends violators or suspects based on probable cause; testifies at courts-martial or other appropriate judiciary tribunals; engages in crime prevention efforts and physical security surveys; performs worldwide protective services for Department of Defense executives, visiting foreign officials, and other designated principals; knows techniques for effective investigation of any type of crime involving U.S. government property and individuals subject to the Uniform Code of Military Justice; knows what constitutes an offense under applicable criminal codes and laws; knows techniques governing search and apprehension; knows rules of evidence and methods of collecting, preserving, and protecting evidence; knows complete procedures for identifying, protecting, and searching a crime scene; knows techniques of surveillance, covert operation, raids, and search and seizure and conducts such activities; applies evidence, records, and laboratory reports to criminal investigations; knows techniques of crime prevention, physical security, and industrial defense surveys; evaluates findings and develops recommendations resulting from such surveys; interviews and interrogates complainants, witnesses, informants, suspects, and other persons considered knowledgeable of or connected with crimes; develops information on suspects concerning habits, associates, aliases, characteristics, and other personal information and uses such information in the investigative process; prepares proper records of information obtained through interviews and interrogations; supervises criminal investigation teams; understands basic techniques for conducting laboratory examinations and the analysis of physical evidence; applies laboratory techniques and procedures to physical evidence; evaluates all information obtained in connection with a specific crime; knows administrative procedures, report writing, correspondence formats, supply channels, and office management; testifies as expert witness concerning application of any standard technique or procedure used in criminal investigation; coordinates with appropriate civil and military agencies involving jurisdictional authority, exchange of information, and similar problems and considerations; may be an operations officer giving direction to other personnel involved in various investigations; may serve as an instructor or supervise instruction of personnel in various crime-related topics; may have foreign language proficiency; has extensive knowledge about narcotics and narcotics trafficking, including clandestine laboratories, drug traffic patterns, drug identification, and drug field testing; conducts drug abuse education programs.

Recommendation
In the vocational certificate category, 6 semester hours in laws/rules of evidence, 3 in report writing, and 3 in criminal investigation, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in laws/rules of evidence, 4 in introduction to law enforcement, 3 in criminal law, 3 in criminal investigation, 3 in report writing, and 3 in oral communication, and additional credit in a foreign language on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in criminology (crime scene and laboratory) and 3 for a practicum in education, and additional credit in foreign language and education on the basis of institutional evaluation, for a minimum total of 9 semester hours (11/77).

MOS-961A-001

ATTACHE TECHNICIAN

(ARMY ATTACHE ADMINISTRATIVE
OFFICER)

961A0 (formerly 2122)

Exhibit Dates: 3/54–Present.

Career Pattern
May have progressed to Attache Technician from MOS 71L (Administrative Specialist) or MOS 71S (Attache Specialist).

Description
Performs general administrative and logistics functions in support of Defense Army Attache office located in an embassy of the United States of America; must know regulations, directives, and procedures necessary for managing and operating administrative and logistics support functions; secures and manages housing accommodations for personnel assigned to the embassy; knows history, political and economic institutions, social customs, and, when possible, the language of the country to which assigned; advises other attache office personnel and visitors regarding matters on protocol, military courtesies, and public affairs; supervises enlisted and civilian support specialists; manages internal activities of the Defense Attache office; compiles and prepares reports and private communications; receives, interviews, and schedules meetings with U.S. and foreign military and civilian visitors; supervises internal communications; maintains files and administers the record keeping process; types correspondence, messages, forms, and manuscripts; authenticates vouchers; processes and reviews requisitions; may serve as service school instructor; may perform other officer-level duties as required.

Recommendation
In the vocational certificate category, 4 semester hours in typing, 2 in filing, 3 in office practices, 3 in business communication, 3 in records administration, and 1 in business machines, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in typing, 2 in filing, 3 in office practices, 3 in business communication, 3 in records administration, 1 in business machines, 3 in human relations, 6 for field experience in office management, 6 in social science, 2 in public relations, and 3 in personnel supervision, for a total of 36 semester hours. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 in real property management, for a minimum total of 6 semester hours; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 12 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (11/77).

MOS-962A-001

Image Interpretation Technician

962A0

Exhibit Dates: 1/64–Present.

Career Pattern

May have progressed to Image Interpretation Technician from MOS 96D (Image Interpreter).

Description

Manages activities or performs duties relative to image interpretations; applies techniques and principles of image interpretation, photogrammetry, and topographic drafting; knows and applies basic principles of geology and human and physical geography; understands basic cartography, surveying, geometry, trigonometry, and the metric system; prepares written summaries and gives oral reports; conducts briefings; establishes and maintains files; instructs subordinates in proper work techniques and procedures; directs training; supervises personnel; advises superiors; develops map overlays; may servce as a service school instructor.

Recommendation

In the vocational certificate category, 3 semester hours in map reading, 2 in mechanical drawing, 3 in photogrammetry, 3 in technical writing, 3 in technical mathematics, and 3 in aerial photographic interpretation, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in physical geography, 3 in technical writing, 3 in technical mathematics, 2 in mechanical drawing, and 3 in human relations, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 for field experience in management, and 3 in personnel management, for a minimum total of 9 semester hours; *if duty assignment was instructor at a formal training facility,* 6 additional semester hours for a practicum in education, for a total of 15 semester hours (11/77).

MOS-963A-001

Interrogation Technician

963A0

Exhibit Dates: 7/68–Present.

Career Pattern

May have progressed to Interrogation Technician from MOS 96C (Interrogator).

Description

Knows history, culture, geography, and current politics and economics of country or countries in area to which assigned; knows techniques and principles of interrogation and document exploitation; knows interrogation reporting procedures; conducts interrogations, in a foreign language, of informants, prisoners of war, and refugees; prepares reports of interrogations and identifies and resolves conflicting information provided by different sources, such as documents; disseminates reports and makes assessments of the validity of information for dissemination to users; summarizes findings; functions as a supervisor, chief, or commander of a team or larger unit; translates technical publications related to recent scientific discoveries and inventions; usually is proficient in reading, writing, speaking, and translating two or more foreign languages.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in report writing, 3 in oral communication, and 3 in personnel supervision, and additional credit in area studies on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, and additional credit in area studies on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (11/77).

MOS-964A-001

Order of Battle Technician

964A0

Exhibit Dates: 7/68–Present.

Career Pattern

May have progressed to Order of Battle Technician from MOS 96B (Intelligence Analyst).

Description

Collects and evaluates tactical and strategic information related to organization, operations, capabilities, and limitations of armed forces; uses the accumulated information to develop order-of-battle data; makes reliability assessments of information through comparison with previously evaluated information; maintains close liaison with other intelligence activities, including counterintelligence, photo interpretation, interrogation, and language interpretation units; develops and maintains maps and overlays to provide complete and accurate intelligence information relating to friendly and enemy armed forces; interprets maps; prepares written reports; gives briefings and oral reports; maintains current information concerning both friendly and enemy forces to include identification, disposition, personalities, combat efficiency, and history; evaluates the significance of armed forces vulnerability studies for use in predicting probable courses of action; has a working knowledge of automatic data processing procedures as applied to tactical and strategic intelligence; supervises, commands, or acts as chief of a section, detachment, or team engaged in the development of the data or information required in this area; may serve as a service school instructor.

Recommendation

In the vocational certificate category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in communication skills (oral), and 1 in map reading, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in oral communication, 3 in personnel supervision, and 1 in map reading, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in management problems; *if rank was CW2,* 2 additional semester hours for field experience in management, for a total of 5 semester hours; *if rank was CW3,* 4 additional semester hours for field experience in management, for a total of 7 semester hours; *if rank was CW4,* 6 additional semester hours for field experience in management, for a total of 9 semester hours; *if duty assignment was service school instructor,* 6 semester hours for a practicum in education (11/77).

MOS-971A-001

Counterintelligence Technician
(Intelligence Technician)

971A0

Exhibit Dates: 1/64–Present.

Career Pattern

May have progressed to Counterintelligence Technician from MOS 97B (Counterintelligence Agent) or MOS 97C (Area Intelligence Specialist).

Description

Manages activities or performs duties that provide intelligence information; investigates personnel under U.S. Army jurisdiction to determine their suitability for assignment to sensitive duties; conducts interrogations, briefings, and debriefings; prepares intelligence and investigative reports; analyzes and interprets intelligence and counterintelligence data; works closely with civilian law enforcement officials and investigative agencies; supervises and trains subordinates; knows organization, mission, tactics, and operating methods of friendly and enemy intelligence units and personnel; knows principles and procedures involved in counterintelligence investigations; knows interrogation techniques; knows techniques for conducting effective liaison with local, state, and national investigative and other governmental agencies of friendly and occupied countries; knows operation, characteristics, and regulations governing the use of recording and monitoring equipment; knows techniques and regulations governing investigative surveillance; knows fundamentals of military and civil law, including due process and the application of legal principles to counterintelligence operations; collects evidence admissible for legal action and obtains depositions; knows the culture, customs, history, social, economic, and political structures of the area of operation; conducts security investigations, surveys, and vulnerability studies of installations; knows principles for communications and signal security; processes photographic film; may be a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in U.S. government, 3 in applied psychology, 3 in report writing, 3 in oral communication, 3 in office management, 2 in personnel supervision, and 1 in typing, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours in political ideologies, 3 in constitutional law, and 3 in public relations, for a total of 9 semester hours; *if the duty assignment was service school instructor,* 6 additional semester hours for a practicum in education, for a total of 15 semester hours (11/77).

MOS-972A-001

Area Intelligence Technician

972A0

Exhibit Dates: 1/64–Present.

Career Pattern

May have progressed to Area Intelligence Technician from MOS 97B (Counterintelligence Agent) or MOS 97C (Area Intelligence Specialist).

Description

Collects intelligence information on a specific geographic area through the use of human resources; works with a minimum of supervision; uses extremely demanding operational security procedures in a foreign environment; knows culture, customs, history, politics, geography, economics, and social structure of geographic area(s); knows procedures for preparing and forwarding reports; conducts interviews, interrogations, briefings, and debriefings; prepares informational and operational reports; analyzes and interprets information for intelligence implications; reads maps and prepares map overlays; supervises area intelligence units and teams. NOTE: Many of the required duties for this MOS involve highly classified materials, equipment, techniques and activities, therefore, not all the competencies and knowledges associated with the MOS were evaluated.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in area studies, 3 in regional geography, 3 in applied psychology, 3 in report writing, 3 in speech, 3 in photography, 1 in electronic systems, 1 in typing, and 1 in human relations, for a total of 24 semester hours. In the upper-division baccalaureate category, 6 semester hours in history electives, 3 in economics electives, 3 in comparative cultures, 3 in applied research, 3 in personnel management, and 3 in international relations, for a total of 21 semester hours; *if the duty assignment was service school instructor,* 6 semester hours for a practicum in education, for a total of 27 semester hours. In the graduate degree category, 3 semester hours for a seminar in military intelligence strategy and policy and additional credit in international relations on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (11/77).

MOS-973A-001

INTERROGATION TECHNICIAN

973A0

Until 3/79, the MOS designation for Interrogation Technician was 963A. Use the exhibit, MOS-963A-001.

MOS-982A-001

TRAFFIC ANALYSIS TECHNICIAN

982A0

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Traffic Analysis Technician from MOS 98B (EW/Cryptologic Cryptanalyst), MOS 98C (EW/Signal Intelligence Analyst) or MOS 98Z (EW/Signal Intelligence Chief).

Description

Manages personnel and technical equipment engaged in intercepting, decoding, and analyzing communication traffic for content of possible intelligence value; establishes priorities of intercept missions for acquisition of desired traffic; plans, organizes, and coordinates activities; reviews data obtained in the traffic intercept process for accuracy and relevance; prepares and transmits information reports; advises commanders and staff officers on matters concerning traffic analysis and use of the data.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 for management electives, for a total of 6 semester hours; *if rank was CW2,* 2 semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3,* 4 semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4,* 6 semester hours for field experience in management, for a total of 12 semester hours (8/78).

MOS-983A-001

EMANATIONS ANALYSIS TECHNICIAN

983A0

Exhibit Dates: Pending evaluation.

MOS-984A-001

MORSE INTERCEPT TECHNICIAN

984A0 (formerly 051A0)

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Morse Intercept Technician from MOS 05H (EW/Cryptologic Interceptor-Morse) or MOS 05K (EW/Cryptologic Interceptor-Teletypewriter).

Description

Manages personnel and technical equipment in establishment and employment of Morse intercept and electronic warfare activities; plans, coordinates, and supervises personnel engaged in these operations; may supervise up to several hundred personnel; establishes work schedules and priorities; evaluates performance of subordinates; supervises calibration, adjustment, and testing of Morse intercept equipment; conducts training programs for equipment operators; knows antenna theory and wave propagation characteristics; supervises application of message analysis; supervises cryptanalysis principles and procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision; *if served as platoon leader,* 3 semester hours in principles of administration for a total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management problems, and 3 for management electives, for a total of 9 semester hours; *if rank was CW2,* 2 semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3,* 4 semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4,* 6 semester hours for field experience in management, for a total of 15 semester hours (6/78).

MOS-985A-001

NON-MORSE INTERCEPT TECHNICIAN

985A0 (formerly 052A0)

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Non-Morse Intercept Technician from MOS 05F (Radio Teletypewriter Operator), MOS 05K (EW/Cryptologic Interceptor-Teletypewriter), or MOS 98J (EW/Signal Intelligence Noncommunications Interceptor).

Description

Manages personnel and technical equipment in establishment and employment of non-Morse intercept and electronic warfare activities; plans, coordinates, and supervises personnel engaged in these operations; may supervise up to several hundred personnel; establishes work schedules and priorities; evaluates performances of subordinates; supervises calibration, adjustment, and testing of various electronic intercept equipment including radios and printers; conducts training programs for equipment operators; knows antenna theory and wave propagation characteristics; supervises application of message analysis; supervises cryptanalysis principles and procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision; *if served as platoon leader,* 3 semester hours in principles of administration, for a total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management problems, and 3 for management electives, for a minimum total of 9 semester hours; *if rank was CW2,* 2 semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3,* 4 semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4,* 6 semester hours for field experience in management, for a total of 15 semester hours (8/78).

MOS-986A-001

EMITTER LOCATION/IDENTIFICATION TECHNICIAN

(SPECIAL IDENTIFICATION TECHNICIAN)

986A0 (formerly 053A0)

Exhibit Dates: 6/61-Present.

Career Pattern

May have progressed to Emitter Location/Identification Technician or Special Identification Technician from MOS 05D (EW/Cryptologic Special Identification Operator) or MOS 05H (EW/Cryptologic Interceptor-Morse).

Description

Manages personnel and technical equipment assets engaged in establishment and employment of Emitter Location/Identification System (ELI) activities in a communications-electronic intelligence environment; supervises maintenance, calibration, adjustment, and testing of equipment; operates or supervises operation of radio (CW, voice, teletype), and cryptographic equipment; ensures that personnel follow established direction-finding communications nets; advises commanders or staff officers on the employment, deployment, and utilization of ELI assets; analyzes collected information and converts to usable intelligence for use of commanders.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic mathematics and 3 in personnel supervision; *if served as platoon leader,* 3 semester hours in principles of administration for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management problems, and 3 for management electives, for total of 9 semester hours; *if rank was CW2,* 2 semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3,* 4 semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4,* 6 semester hours for field experience in management, for a total of 15 semester hours (8/78).

MOS-988A-001

Voice Intercept Technician

988A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Voice Intercept Technician from MOS 98G, EW/Cryptologic Interceptor-Voice, MOS 98Z, EW/Signal Intelligence Chief, or MOS 05E, Voice Radio Operator.

Description

Manages and plans personnel and equipment engaged in the intercept and analysis of voice communications; supervises installation of and provides operational direction to voice intercept and electronic warfare activities; supervises the calibration, adjustment, and testing of voice intercept and standard communications equipment; applies knowledge of wave propagation antenna and electronic theory to ensure proper antenna emplacement and orientation; reads, writes, comprehends, transcribes, and translates at least one foreign language; supervises intercept, transcription, and translation of voice communications in a foreign language; advises commanders and staff officers on the employment and utilization of voice intercept and electronic equipment and personnel; conducts training programs for voice intercept and electronic countermeasures personnel; defines and advises the commander on language problem areas.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision; *if served as platoon leader,* 3 semester hours in principles of administration, for a total of 6 semester hours. In the upper-division baccalaureate category, 6 semester hours for humanities or social science electives, 3 in personnel management and training, 3 in management problems, and 3 for management electives, for a minimum total of 15 semester hours; *if rank was CW2,* 2 semester hours for field experience in management, for a total of 17 semester hours; *if rank was CW3,* 4 semester hours for field experience in management, for a total of 19 semester hours; *if rank was CW4,* 6 semester hours for field experience in management, for a total of 21 semester hours. NOTE: Add credit for the specific foreign language(s) by referring to the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the recommendation on the basis of institutional evaluation (8/77).

DANTES Subject Standardized Tests (DSSTs)

The Defense Activity for Non-Traditional Education Support (DANTES) provides support to the voluntary education programs of all military services. DANTES was created in May 1974 after disestablishment of the United States Armed Forces Institute (USAFI). Policy control of DANTES rests with the Director of Defense Education in the Office of the Secretary of Defense; DANTES policy is administered by a Department of Defense policy council on which all military services are represented.

DANTES began offering Subject Standardized Tests when it was established in July 1974. Many of the tests were identical with those sponsored by the United States Armed Forces Institute (USAFI) prior to its disestablishment. Each test in this series is intended to reflect the knowledge and understanding normally associated with a term of study in a university, college, or technical school (i.e., postsecondary programs leading to a degree or certificate). The DSSTs are administered through military education and testing centers worldwide and are available to active military personnel only. Participation in the program is optional.

The DSSTs are a series of multiple-choice subject-matter examinations in college and technical subjects. DSSTs are essentially end-of-course achievement tests. Each DSST is based on several textbooks commonly used for a course of the same or similar title. Examinee scores are reported as percentiles (PR) for early DSST forms designed as SA or SB; scores are reported as standard scores (SS) (mean 50, standard deviation 10) for recent DSST forms designated SC and SD. Both score scales are based on test results for large standardization samples of students completing relevant courses.

DANTES regularly contracts with test development organizations to revise and update DSSTs and to produce additional new tests. Prior to their distribution, the tests are evaluated by panels of subject matter and technical experts assembled by the ACE Office on Educational Credit and Credentials (OECC) staff. As a matter of policy, the recommended amount and type of credit, minimum test score for which credit should be awarded and the length of initial Commission recommendation are based primarily on the suggestions of each faculty subject matter review panel. The recommended minimum test score for credit awards is established for each DSST at the level judged by faculty reviewers to represent the knowledge and understanding that would be clearly deserving of credit at most institutions offering comparable courses. (No actual data on grades are provided by the DSST test developer, so these score levels are based on the faculty reviewers' subjective judgments and on their inspection of the normative data provided.)

The ACE credit recommendations for DSSTs, as of the publication date of the *Guide*, are indicated below. Since recommendations for many new tests are anticipated and those for others will soon expire, readers are urged to contact OECC for supplementary recommendations on revised or newly developed DSSTs.

TEST	TITLE	CREDIT AMOUNT (SEM. HRS.)	MINIMUM SCORE	TAKEN ON OR BEFORE
SB404	Survey of English Literature	3B	20PR	12-31-79
SA408	Survey of American Literature I	3B	20PR	12-31-79
SA409	Survey of American Literature II	3B	20PR	12-31-79
SA424	Intermediate College Algebra	3B	20PR	12-31-79
SC424	Intermediate College Algebra	3B	50SS	12-31-84
SB425	College Algebra	3B	20PR	3-31-79
SB433	Basic Statistics	3B	20PR	12-31-80
SC433	Basic Statistics	3B	54SS	12-31-84
SA435	Plane Trigonometry	3B	20PR	12-31-79
SC435	Plane Trigonometry	3B	50SS	12-31-84
SA440	Calculus I	4B	20PR	12-31-79
SC440	Calculus I	4B	50SS	12-31-84
SA441	Calculus II	4B	20PR	12-31-80
SC441	Calculus II	4B	52SS	12-31-82

SA445	Differential Equations	3B	20PR	12-31-79
SC445	Differential Equations	3B	54SS	12-31-81
SA446	Linear Algebra	3B	20PR	12-31-80
SC446	Linear Algebra	3B	20PR	5-31-80
SB453	Principles of Economics I	3B	20PR	12-31-79
SC453	Principles of Economics I	3B	48SS	12-31-83
SB454	Principles of Economics II	3B	20PR	12-31-78
SB457	History of Western Civilization to 1500	3B	20PR	12-31-78
SB458	History of Western Civilization since 1500	3B	20PR	6-30-79
SA462	History of the American Negro	3B	20PR	12-31-80
SA467	History of Modern East Asia	3B	20PR	12-31-79
SA468	History of Southeast Asia	3B	20PR	12-31-79
SA471	History of Africa	3B	20PR	12-31-79
SA472	Problems of Contemporary Latin America	3B	20PR	2-28-77
SA481	Modern European Governments	3B	20PR	12-31-79
SA482	Modern Asian Governments	3B	20PR	12-31-79
SB488	Psychology of Adjustment	3B	20PR	12-31-80
SC488	Psychology of Adjustment	3B	53SS	12-31-84
SA491	Educational Psychology	3B	20PR	7-31-79
SC491	Educational Psychology	3B	56SS	12-31-82
SA494	General Anthropology	3B	20PR	12-31-78
SA497	Introduction to Law Enforcement	3B	20PR	12-31-78
SB498	Criminology	3B	20PR	12-31-80
SB500	Astronomy I	2B	20PR	12-31-80
SC500	Astronomy I	3B	48SS	12-31-83
SA505	General Geophysics	3B	20PR	12-31-80
SC505	General Geophysics	3B	51SS	12-31-83
SA510	Oceanography	3B	20PR	12-31-80
SB512	Principles of Physical Science I	3B	20PR	12-31-80
SC512	Principles of Physical Science I	3B	51SS	12-31-82
SA514	College Chemistry I	3T	20PR	3-31-79
SA515	College Chemistry II	3T	20PR	3-31-79
SB517	College Physics I	3B	20PR	12-31-80
SB518	College Physics II	3B	20PR	12-31-80
SA519	Geology I	3B	20PR	12-31-79
SC519	Geology I	3B	54SS	12-31-82
SA520	Geology II	3B	20PR	12-31-79
SA525	Principles of Accounting I	3B	20PR	12-31-80
SC525	Principles of Financial Accounting I	3B	50SS	12-31-84
SB533	Business Law I	3B	20PR	12-31-80
SC533	Business Law I	3B	53SS	12-31-86
SB534	Business Law II	3B	20PR	12-31-79
SA535	Introduction to Data Processing	2B	20PR	2-28-77
SA539	Principles of Management	3B	20PR	7-31-79
SC539	Introduction to Management	3B	54SS	12-31-83
SB543	Introduction to Business	3B	20PR	11-30-79
SC543	Introduction to Business	3B	48SS	12-31-84
SB544	Personnel Management	3B	20PR	3-31-79
SA546	Risk and Insurance	3B	20PR	12-31-80

SB547	Introduction to Real Estate	3B	20PR	3-31-79
SA548	Money and Banking	3B	20PR	12-31-78
SA549	Marketing	3B	20PR	7-31-79
SC549	Basic Marketing	3B	50SS	12-31-83
SA550	Climatology/Meteorology	3T/3B	20PR	12-31-80
SC550	Meteorology and Climatology	3B	55SS	12-31-89
SA560	Introduction to Education	3B	20PR	3-31-79
SA561	History and Philosophy of Education	3B	20PR	12-31-79
SA562	Principles of Guidance	3B	20PR	12-31-78
SA568	Introduction to Forestry	3B	20PR	12-31-80
SA577	Beginning French I	+	20PR	3-31-79
SA578	Beginning French II	++	20PR	3-31-79
SA579	Beginning German I	+	20PR	12-31-79
SC579	Beginning German I	4B	50SS	12-31-81
SA580	Beginning German II	++	20PR	3-31-79
SA583	Beginning Spanish I	+	20PR	12-31-78
SA584	Beginning Spanish II	++	20PR	12-31-78
SC584	Beginning Spanish II	3B	50SS	12-31-84
SA585	Beginning Italian I	+	20PR	12-31-80
SA586	Beginning Italian II	++	20PR	12-31-80
SA740	Auto Mechanics I	3T	20PR	12-31-78
SA741	Auto Mechanics II	3T	20PR	12-31-78
SA756	Introduction to Carpentry	3T	20PR	12-31-78
SB770	Basic Technical Drawing and Graphics	3T	20PR	12-31-79
SA781	Fundamentals of Electricity	2T	20PR	12-31-78
SA785	Electrical Measuring Instruments	3T	20PR	12-31-80
SC785	Electrical Measuring Instruments	2T	57SS	12-31-86
SA788	Introduction to Electronics I	3T	20PR	12-31-80
SC788	Introduction to Electronics I	3B	52SS	12-31-83
SA789	Introduction to Electronics II	3T	20PR	12-31-80
SC789	Introduction to Electronics II	3T	57SS	12-31-82
SB794	Introduction to Diesel Engines I	3T	20PR	3-31-79
SB795	Introduction to Diesel Engines II	3T	20PR	3-31-79
SA810	Technical Mathematics I	5T/3B	20PR	12-31-78
SA811	Technical Mathematics II	5T/3B	20PR	12-31-79
SA820	Technical Writing	3T/3B	20PR	12-31-79
SB885	Fundamentals of Radio	3T	20PR	12-31-79
SA890	Radio Servicing	4T/2B	20PR	12-31-78
SA891	Television Servicing	4T/2B	20PR	12-31-79
SA936	Introduction to Refrigeration	4T	20PR	12-31-79
SA960	Introduction to Quality Control	3B	20PR	2-28-77

NOTES

1. Recommendations for forms designated "SC" also apply to those designated "SD."

2. Scores on forms "SA" and "SB" are percentiles (PR); those on forms "SC" and "SD" are standard scores (SS) with mean 50 and standard deviation 10. All scores based on results for large samples of college students completing courses comparable to the tests.

3. "+" and "++" represent, respectively, the amounts of credit normally awarded for one- and two-semester introductory courses at the institution.

4. Abbreviations used for credit categories are:

"T": Technical Certificate Level: This category describes tests corresponding to course work normally found in certificate or diploma (nondegree) programs that are usually a year or less in length and designed to provide students with occupational skills.

"B": Baccalaureate/Associate Level: This category describes tests corresponding to course work normally found in the first two years of a baccalaureate program and in programs leading to the Associate in Arts, Associate in Science, or Associate in Applied Science degrees.

USING THESE RECOMMENDATIONS

The Amercian Council on Education recommends that credit for USAFI/DANTES courses and tests be granted only after successful completion is verified from official records.

Official records for service personnel and veterans completing USAFI (United States Armed Forces Institute) courses and tests prior to its disestablishment on June 30, 1974, can be obtained at no cost from DANTES Contractor Representative (Transcripts), Educational Testing Service, Box 2879, Princeton, New Jersey 08541. Credit recommendations for USAFI courses and tests may be obtained from OECC.

Official records for individuals who completed DANTES Subject Standardized Tests after July 1, 1974, can be obtained for a nominal fee from DANTES Contractor Representative (CLEP), Educational Testing Service, Box 2819, Princeton, New Jersey 08541.

Assistance in interpreting or applying these recommendations is available from the staff, Office on Education Credit and Credentials, Suite 20, One Dupont Circle, Washington, D.C. 20036. (Phone: 202-833-4770.)

Appendix A

The Evaluation Systems

During the period, 1945–80, the American Council on Education developed and refined comprehensive procedures and criteria for the evaluation of military learning experiences. This appendix outlines the historical development of the *Guide;* defines which courses can be found in the *Guide;* provides background information on Army enlisted and warrant officer MOS's (military occupational specialties); describes the evaluation systems used to prepare the recommendations for military formal courses and MOS's; and includes definitions and guidelines pertaining to categories of educational credit, the semester hour standard, categories of apprentice training, and clock hours and contact hours.

BACKGROUND

Early editions of the *Guide to the Evaluation of Educational Experiences in the Armed Services* were prepared in response to specific needs. Immediately after World War II, the consensus in the educational community was that the practice of granting blanket credit to World War I veterans as a reward for length of service was educationally unsound. Educators concluded that military learning experiences applicable to civilian curricula should be assessed by civilian education specialists for potential credit. Therefore, in December 1945, at the request of civilian educational institutions and the regional accrediting associations, the American Council on Education established the Commission on Accreditation of Service Experiences—renamed the Commission on Educational Credit and Credentials in 1979—to evaluate military educational programs and to assist institutions in granting credit for such experiences. Accordingly, the first edition of the *Guide* was published to assist educational institutions in evaluating service courses completed by returning veterans.

The extension of the World War II G.I. Bill to include veterans of the Korean conflict, and the subsequent enrollment of many veterans in colleges and universities, created a need for the second edition, published in 1954.

The 1968 edition was prepared in anticipation of the increased enrollment of veterans resulting from the educational assistance provided under the Veterans Readjustment Benefits Act of 1966, and with the expectation that many would apply for educational credit for their learning experiences in the armed services. In addition, technological advances had necessitated major changes in service training, with a resulting need for new or revised educational credit recommendations.

The 1974 edition was prepared primarily to respond to three emerging considerations. First, because of the growth in vocational and technical programs and the emergence of the concept of postsecondary education, there was a need to evaluate courses for possible credit in the vocational and technical categories in addition to the baccalaureate and graduate categories of previous editions. Second, active-duty service men and women were enrolling in increasing numbers in civilian educational programs and were seeking credit for related military formal courses soon after completing their service school training. Third, credit recommendations were needed for the many courses initiated or revised by the military since 1968.

The 1974 edition marked the beginning of a new approach to reporting evaluations of formal military training. At its fall 1973 meeting, the Commission approved the concept of an ongoing *Guide* system. Elements of that system include the publication of biennial editions of the *Guide* through computerized composition, continuous staff review of courses, and the computerized storage of course information for a more rapid updating of credit recommendations and for an improved ability to respond to inquiries related to course identification and credit recommendations.

Over the years the recommendations contained in the *Guide* have assisted education institutions in granting credit to hundreds of thousands of service men and women. Surveys conducted by the Office showed that most of the nation's colleges and universities use the formal course recommendations in awarding credit to veterans and active-duty service personnel. The recommendations have been widely accepted because military formal courses share certain key elements with traditional postsecondary programs: they are formally approved and administered, are designed for the express purpose of achieving learning outcomes, are conducted by qualified persons with specific subject-matter expertise, and are structured to provide for the evaluation of learning outcomes.

Until 1975, however, no mechanism existed for providing recognition for the learning a service man or woman attained through such learning experiences as self-instruction, on-the-job training, and work experience. As a first step in providing recognition for such learning experiences, the Commission in 1975 implemented a program for the evaluation of learning represented by demonstrated proficiency in Army enlisted military occupational specialties (MOS's). The MOS evaluation procedures were developed, tested, and refined during a feasibility study conducted by the Council and sponsored by the U.S. Department of the Army. Evaluators made recommendations for educational credit and advanced standing in apprentice training programs. Subsequently, the occupational assessment program of the Commission was expanded to include the general rates and ratings of the Navy Enlisted Manpower and Personnel Classification System and Army warrant officer MOS's.

The recommendations for advanced standing in apprentice training programs are the results of the cooperative efforts of the American Council on Education and labor and industry. The recommendations reflect the Commission's belief that it is sound educational practice to give recognition for learning, no matter how or where that learning has been attained, provided that the learning is at the appropriate level, is in the appropriate area, and is applicable to an individual's postsecondary program of study or apprenticeship program.

THE COURSES

Courses listed in the *Guide* are normally service school courses conducted on a formal basis, i.e., approved by a central authority within each service and listed by the service in its catalogue. These courses are conducted for a specified period of time with a prescribed course of instruction, in a structured learning situation, and with qualified instructors.

Most courses are given on a full-time basis (a minimum of thirty contact hours of instruction a week) for not less than two weeks' duration; or, if less than two weeks in length, the course must include a minimum of sixty contact hours of instruction. (Prior to 1973 the minimum length requirement was three weeks or 90 hours.) The American Council on Education also evaluates courses conducted for National Guard and Reserve personnel (not on extended active-duty status) when these courses meet the same requirements.

Recommendations for formal courses offered between World War II and 1954 are available in the 1954 edition of the *Guide* or from the Office on Educational Credit and Credentials upon written request by education officials. In addition, military Subject Standardized Tests (SSTs) are evaluated by the American Council on Education, but are not included in the *Guide;* recommendations are available from the Office on Educational Credit and Credentials upon written request by education officials.

THE COURSE EVALUATION SYSTEM

In the fall of 1973, the Commission on Educational Credit and Credentials of the American Council on Education approved the following procedures and guidelines for the evaluation of military formal courses.

The Evaluation Process

Courses are evaluated by teams of at least three subject-matter specialists (college and university professors, deans, and other academicians). Through discussion and the application of evaluation procedures and guidelines, team members reach a consensus on the amount and category of credit to be recommended.

Evaluation materials include the course syllabus, training materials, tests, textbooks, technical manuals, and examinations. Additional information is obtained from interviews with instructors and program administrators, classroom observations, and examination of instructional equipment and laboratory facilities.

Each team of evaluators has two major tasks for each course: the formulation of a credit recommendation and the preparation of the course's description. The credit recommendation consists of the category of credit, the number of semester hours recommended, and the appropriate subject area. Using the information provided in the military syllabus, evaluators phrase the course description (which appears in the *Guide* exhibits under the headings "Objectives" and "Instruction") in terms meaningful to civilian educators. The course description supplements the credit recommendations by summarizing the nature of a given course.

Throughout the evaluation process, evaluators exercise professional judgment in applying the evaluative criteria and procedures. This position reflects the Commission's belief that sound educational evaluation is more dependent on professional judgment and expertise than on rigid application of criteria.

The Commission on Educational Credit and Credentials continually reviews its criteria and procedures. Evaluators are encouraged to provide feedback and recommendations for consideration by the Commission.

Selection of Evaluators

Nominations for course evaluators are requested from regional accrediting associations, professional and disciplinary societies, educational associations, and postsecondary institutions. Graduate-level credit

<table>
<tr><td colspan="5">Skills, Competencies, and Knowledge Evaluated</td><td></td><td></td><td></td><td></td></tr>
<tr><td>1st Character</td><td>2nd Character</td><td>3rd Character</td><td>4th Character</td><td>5th Character</td><td>6th Character</td><td>7th Character</td><td>8th Character</td><td>9th Character</td></tr>
<tr><td rowspan="2">number 0–9</td><td rowspan="2">number 0–9</td><td rowspan="2">letter A–Z</td><td rowspan="2">number 1–5</td><td>"O"</td><td rowspan="2">letter</td><td rowspan="2">number</td><td rowspan="2">letter</td><td rowspan="2">letter</td></tr>
<tr><td>letter</td></tr>
<tr><td colspan="3">Military Occupational Specialty (MOS)</td><td>Skill Level</td><td>Special Qualifications Identifier (SQI)</td><td colspan="2">Additional Skill Identifier (ASI)</td><td colspan="2">Language Identification Code (LIC)</td></tr>
<tr><td colspan="4"></td><td>See Appendix A</td><td colspan="2">See Appendix B</td><td colspan="2">Normally assigned after completion of Defense Language Institute course or achieving a comparable score on a competency examination. Refer to formal course recommendations.</td></tr>
</table>

Figure 1: *The Enlisted MOS Structure*

recommendations are generally determined by graduate school deans and professors nominated by the president of the Council of Graduate Schools in the United States.

The criteria for the selection of formal course evaluators are as follows:

1. Area of an evaluator's competence, as evidenced by formal training and experiences, will closely approximate area of student training to be evaluated.
2. Preference will be given to candidates who are subject-matter specialists with five or more years of postsecondary teaching or administrative experience, including curriculum development.
3. Preference will be given to candidates who are generally receptive to the recognition of learning that occurs in a variety of settings.

ARMY ENLISTED MOS's

The following paragraphs include background information on Army enlisted MOS's, a description of the enlisted MOS classification system, and detailed information on the enlisted MOS evaluation score.

The Army Enlisted MOS Classification System

The Army Enlisted Military Occupational Specialty (MOS) Classification System is a comprehensive taxonomy of Army enlisted duty positions. Closely related positions that require similar qualifications and the performance of similar duties are grouped as an MOS under a generic title. The job title *clerk-typist*, for example, encompasses duty assignments such as file clerk, shipping clerk, reports clerk, clerk-typist, and senior clerk-typist.

Soldiers and Army veterans, and Army records usually refer to enlisted occupations using a designation with *at least* five characters (e.g., 71B10, 71B20, 71B30). **Figure 1** shows the elements of an enlisted MOS designation. The first three characters (two numbers and a letter) identify the MOS (e.g., 71B is the designation for clerk-typist). The fourth character, a number from one to five, indicates the type and level of skill within the MOS. As shown in Figure 1, only the skills, competencies, and knowledge represented by the *first four characters* of the MOS designation are evaluated for comparability with civilian learning.

The fifth character is normally zero ("0"); in some cases, a letter is used as a special qualification identifier (SQI) to indicate a soldier's specific duty assignment of special qualifications. In fact, an enlisted soldier's occupation may be expressed by as many as nine characters, but because the last five characters indicate special qualifications that are variable, the learning they represent is not evaluated by ACE. **Appendixes B and C** provide users with information describing the additional characters that make up the enlisted MOS designation: enlisted Special Qualification Identifiers (SQIs) are described in Appendix B, and enlisted Additional Skill Identifiers (ASIs) are described in Appendix C. Users may want to conduct an individual assessment and grant credit to recognize the additional learning represented by these characters.

The first three characters, then, represent the MOS, or occupational designation, and the fourth character represents the skill level within the MOS. In accordance with Army practice, *skill levels are referred to in this publication with a neutral fifth character: zero* (i.e., 10, 20, 30, 40, and 50). Each enlisted MOS has from one to five skill levels, depending on the types of duty positions encompassed by the MOS. The five skill levels may be broadly characterized as follows:

Skill Level 10 identifies entry-level positions requiring performance of tasks under direct supervision.

Skill Level 20 identifies positions requiring performance of more difficult tasks under general supervision.

Skill Level 30 identifies positions requiring performance of still more difficult tasks under a minimum of

<table>
<tr><td colspan="5">Skills, Competencies, and Knowledge Evaluated</td><td colspan="4"></td></tr>
<tr><td>1st Character</td><td>2nd Character</td><td>3rd Character</td><td>4th Character</td><td>5th Character</td><td>6th Character</td><td>7th Character</td><td>8th Character</td><td>9th Character</td></tr>
<tr><td>number 0-9</td><td>number 0-9</td><td>number 0-9</td><td>letter A-Z</td><td>"O"
number or letter</td><td>number</td><td>letter</td><td>letter</td><td>letter</td></tr>
<tr><td colspan="4">Military Occupational Specialty (MOS)</td><td>Special Qualifications Identifier (SQI)</td><td colspan="2">Additional Skill Identifier (ASI)</td><td colspan="2">Language Identification Code (LIC)</td></tr>
<tr><td colspan="4"></td><td>See Appendix E</td><td colspan="2">See Appendix F</td><td colspan="2" rowspan="2">Normally assigned after completion of Defense Language Institute course or achieving a comparable score on a competency examination. Refer to formal course recommendations.</td></tr>
<tr><td colspan="4"></td><td colspan="3">May be assigned on the basis of successful completion of a formal course. Refer to formal course recommendations.</td></tr>
</table>

Figure 2: *The Warrant Officer MOS Structure*

supervision, and, in some instances, involving supervision of soldiers in Skill Levels 10 and 20.

Skill Level 40 identifies positions requiring relatively detailed knowledge of all tasks specified for a given MOS and normally involving first-line supervision of soldiers in Skill Levels 10, 20, and 30.

Skill Level 50 identifies managerial and supervisory positions requiring broad knowledge of the tasks performed at all subordinate levels in a given MOS and related MOS's in order to coordinate and give direction to work activities.

Thus, each skill level represents progressively complex duties, increased skills, and greater responsibility, and proficiency in a higher skill level includes the ability to perform the tasks required for the lower skill level(s), as well as additional tasks.

Enlisted MOS's are grouped into 34 career management fields within the enlisted MOS classification system. Each career management field provides opportunities for advancement and career progression among related MOS's. Most career management fields are divided into subfields of closely related MOS's. Brief descriptions of career management fields are provided in Appendix D.

The Enlisted MOS Evaluation System

The Army regularly evaluates each enlisted soldier's MOS proficiency through the Enlisted Evaluation System. Each individual is evaluated to determine whether he or she has acquired and maintained the necessary MOS skills, competencies, and knowledge, as codified and described in the enlisted MOS classification system. The means used to evaluate soldiers has recently undergone a series of changes.

An individual is awarded an MOS skill level when the skills, competencies, and knowledge for a particular MOS have been acquired. The MOS may be awarded (1) following successful completion of a period of supervised on-the-job training (reflected on the individual's set of orders) or (2) following successful completion of an MOS-producing course (reflected on a Course Completion Certificate).

Subsequently, an individual is periodically evaluated to determine whether he or she has *maintained* the MOS skills, competencies, and knowledge. Until December 1976, the result of this evaluation was an MOS evaluation score; since January 1977, the results are SQT scores and Enlisted Evaluation Reports (EERs) and Senior EERs (SEERs).

The Enlisted MOS Evaluation Score Through December 1976. Until January 1977, the Army's Enlisted Evaluation System comprised a written examination (and in some MOS's, a performance examination such as typing or musical instrument performance) and the supervisor's rating of the soldier's job performance. The written examination was a 125-item, multiple-choice test that covered all major areas of skill-level proficiency. On the supervisor's rating, or EER/SEER, the soldier is rated on a wide range of characteristics and traits. (See Appendix H.)

The score that resulted from the application of the Enlisted Evaluation System was normally a composite score, consisting of the score on the written MOS test, the score from the supervisor's rating of job performance on the Enlisted Efficiency Report (EER), and the score on the performance test, if one was required. Composite MOS evaluation scores ranged from a low of 40 to a high of 160, with the minimum qualification score set at 70.

The SQTs (January 1977–Present). The Skill Qualification Tests assess the soldier's occupational proficiency through a combination of a hands-on performance evaluation, a written test, and the supervisor's performance certification of specific tasks. Development of the SQTs is based on an analysis of critical skills required for proficiency in a given MOS skill level. The test is used for soldiers to requalify in their assigned skill level. They requalify in their skill level by achieving the verified minimum score for the particular MOS. Currently, SQTs have not been developed for pay grades E-8 and E-9.

EER/SEER. Due to the suspension of the use of MOS Evaluation Tests in December 1976 and the gradual phasing-in of SQTs, some soldiers have been evaluated solely on the basis of EER/SEERs. An "EER-only" enlisted MOS evaluation score will not be a composite score and will not include a score from a standardized examination.

Evaluations for pay grades E-6 and above are recorded on SEER (DA Form 2166-5A); E-5 and below are on the EER (DA Form 2166-5). (See Appendix H.) Currently, pay grades E-4 and below are not given EERs. The maximum rating is 125.

ARMY WARRANT OFFICER MOS's

The following paragraphs provide background information on Army warrant officer MOS's and describe the warrant officer MOS classification system and the procedures used by the Army to select warrant officers and evaluate their MOS skills and knowledge.

The Army Warrant Officer MOS Classification System

Army warrant officers are highly skilled technicians. They are normally assigned to middle management or administrative positions that require highly specialized or technical skills and knowledge, and the supervision of enlisted technical specialists.

The warrant officer MOS classification system currently includes approximately 60 MOS's grouped into 13 career fields. Each warrant officer MOS represents a set of duties and qualifications that are highly consistent from one duty assignment to another.

Warrant officer MOS's are normally identified by *at least* four characters (three numbers and a letter, e.g., 214E). **Figure 2** shows the elements of a warrant officer MOS designation. Unlike enlisted MOS's, warrant officer MOS's consist of four characters, not three, and do not have skill levels.

As shown in the figure, a warrant officer's occupational qualifications may be expressed with as many as nine characters, but because the last five characters indicate special qualifications that are variable, the learning they represent is not evaluated. Only the skills, competencies, and knowledge represented by the *first four characters* are evaluated by ACE. The fifth character, a number or a letter, designates a Special Qualification Identifier (SQI); when a warrant officer has not been awarded an SQI, the fifth character is zero ("0"). The sixth and seventh characters (a number and a letter) are an Additional Skill Identifier (ASI) that relates a specific occupational skill or item of equipment to an MOS. The eighth and ninth characters represent competency in a specific foreign language.

Users may wish to conduct an individual assessment to grant credit for the additional learning represented by the last five characters. Because these additional characters are frequently awarded on the basis of successful completion of formal courses, the user may refer to the appropriate formal course recommendations in the *Guide.* Warrant officer Special Qualification Identifiers are described in **Appendix E;** Additional Skill Identifiers, in **Appendix F.** Readers should note that warrant officer SQIs and ASIs are *not* the same as enlisted SQIs and ASIs (described in Appendixes B and C, respectively).

There are four grades of warrant officers: Warrant Officer, W-1 (WO1), Chief Warrant Officer, W-2 (CW2), Chief Warrant Officer, W-3 (CW3), and Chief Warrant Officer, W-4 (CW4). The grades reflect salary increases and are normally indicative of the length of time a person has served as a warrant officer. However, warrant officer grades do not signify differences in job duties. A position requiring a warrant officer may be filled by any qualified warrant officer from WO1 to CW4.

Warrant Officer Selection and Evaluation

The procedures used in selecting warrant officers and evaluating their MOS skills and knowledge are different from those used for enlisted soldiers.

Selection. Warrant officers are appointed by the Secretary of the Army. Warrant officer vacancies are routinely announced, and interested persons undergo a competitive application process. Most applicants have had Army enlisted service experience, but such experience is not required.

To qualify for appointment, applicants must meet several criteria. For ACE purposes, the relevant criteria are:

1. Achieve a standard score of 110 or higher on the Aptitude Area General Technical Test of the Army Classification Battery or the Army Qualification Battery (this score is also required for commissioned officer applicants).
2. Demonstrate understanding of and proficiency in the English language.
3. Have sufficient education and practical experience to ensure outstanding technical ability in the MOS for which application is being made.
4. Be a high school graduate or the equivalent and, when the MOS requires more than a high-school-level education, meet the additional education requirement for the specific MOS. (Two years of college or the equivalent is the desired goal for Regular Army warrant officers.)

In general, selected candidates receive a direct appointment. There are some exceptions—aviator, bandmaster, and certain air defense missile maintenance technicians—where the person must also successfully complete a warrant officer candidate course before being appointed.

Evaluation. Under the present evaluation system, each warrant officer is normally evaluated at least once a year. The evaluation is conducted by three commissioned officers who serve as rater, endorser, and reviewer. Each performs independently. The rater, the warrant officer's immediate supervisor, completes the full evaluation report. The evaluation is then examined by the endorser, the officer who supervises the rater. The endorser verifies the accuracy of the evaluation and may add comments or express disagreement. The reviewer, the officer who supervises the endorser, ensures that the evaluation report has been accurately and properly completed. The commanding officer ensures that each rater, endorser, and reviewer is fully qualified and that evaluations are based on the closest possible knowledge and observation of the warrant officer's job performance.

Warrant officer evaluations focus on technical competence in the MOS. Raters assign "adjectival" and numerical ratings for each of several important duty areas. They select adjectives to describe the quality of performance from a prescribed list that ranges from "inadequate" to "outstanding." (On DA Form 67-7, the numerical range is from 0-70. Later editions of the OER place more emphasis on adjectival and narrative summaries.)

The ratings are recorded on an Officer Evaluation Report (OER), Department of the Army Form 67-7, which also contains a description of the specific functions, duties, and tasks that the rated warrant officer is required to perform during the assignment covered by the OER. Each report provides an appraisal of the rated warrant officer's professional attributes, quality of performance, and potential demonstrated during a specific period while in a particular duty assignment. Complete files of each warrant officer's OERs are maintained in the Military Personnel Center (MILPERCEN), where all OERs are reviewed for accuracy and completeness.

THE MOS EVALUATION SYSTEM

The ACE evaluation system for MOS's has three major components: the selection of evaluators; the materials required for evaluation; and the procedures and guidelines evaluators use in reaching decisions and making recommendations.

Selection of Evaluators

Nominations for evaluators are requested from postsecondary institutions; professional associations; disciplinary societies; labor unions; trade associations; industry associations; educational associations; regional accrediting associations; state departments of education; state credentialing, licensing, and certifying agencies; and the Bureau of Apprenticeship and Training of the U.S. Department of Labor.

The criteria for selection of MOS evaluators are as follows:

1. The area of an evaluator's competency, as evidenced by formal occupational training, knowledge, and experience, will closely approximate the skills, competencies, and knowledge required for proficiency in the MOS.
2. Preference will be given to candidates who are experienced in administration of apprentice training programs when an enlisted MOS is related to an apprenticeable trade.
3. Preference will be given to candidates who are subject-matter specialists with five or more years of postsecondary teaching or administrative experience, including curriculum development.
4. Preference will be given to candidates who are generally receptive to the recognition of learning that occurs in a variety of settings.

An evaluator candidate is interviewed by an ACE staff member to determine whether the individual meets the selection criteria.

Evaluations are conducted by teams of at least three specialists (five when the enlisted MOS is apprenticeship related). The teams are formed by ACE staff members, using the following guidelines:

1. In the evaluation of an enlisted MOS that is related to an apprenticeable trade, two evaluators on the team—one representing labor and one representing management—should have experience in the administration of that apprentice training program.
2. Subject-matter specialists on an evaluation team should represent a variety of postsecondary institutional types: 1-year/2-year/4-year; public/private; vocational/technical.
3. Each team of evaluators should represent a variety of persons from within education, labor, government, industry, and business who have had teaching, supervisory, and administrative experiences.

An effort is also made to attain a diverse geographic representation among evaluators. Teams are formed based on the groups of MOS's to be evaluated. Because MOS skills do not always fall neatly into civilian educational and occupational fields and often encompass two or more fields, most MOS evaluation teams include a curriculum generalist. Provision i also made for an evaluation team, when it finds i cannot thoroughly evaluate an MOS, to refer th

MOS or a particular skill level to another team or other specialists for further evaluation.

Materials Required for Evaluation

In order to make a recommendation, evaluators must first identify the skills, competencies, and knowledge associated with a given warrant officer or enlisted MOS. The materials relevant to the evaluation of each warrant officer MOS or enlisted MOS skill level are made available to ACE staff members and evaluators by the Army. Materials include the official Army MOS manual which describes the duties and qualifications for each MOS; technical manuals, field manuals, and other publications used by enlisted soldiers and warrant officers in the day-to-day performance of their duties and by enlisted soldiers to prepare for their MOS evaluation tests; enlisted MOS skill-level evaluation tests; study guides that outline the proficiency requirements for each enlisted MOS skill level. Additional information is obtained by observing and interviewing enlisted soldiers and warrant officers on-the-job during site visits to Army installations.

Evaluation Procedures and Guidelines

Evaluators identify the skills, competencies, and knowledge required of warrant officers who are qualified in a given MOS and enlisted soldiers who are qualified in a given MOS skill level and relate that demonstrated learning to the same attributes acquired by students who have completed a comparable postsecondary course or curriculum. In addition, the skills, competencies, and knowledge required of enlisted soldiers who are qualified in a given MOS skill level are compared to those same attributes acquired by tradesmen or apprentices who have completed a related apprentice training program. Because the evaluations are based on a comparison of learning outcomes, the amount of time a given enlisted soldier or warrant officer may have spent acquiring MOS proficiency is not taken into consideration. The emphasis is on translating the learning demonstrated through MOS proficiency into terms used in formal civilian education systems to recognize the same learning. This reflects the Commission's belief that the value of learning is not dependent on where or how the learning occurs.

Evaluation teams are assigned four tasks in the evaluation of each MOS: (1) to identify the learning represented by proficiency in the MOS by reviewing the pertinent written materials and by observing warrant officers or soldiers performing in the MOS and interviewing them and their supervisors; (2) to prepare a description of the duties, skills, competencies, and knowledge required for each warrant officer or enlisted MOS skill level; (3) to make recommendations for each warrant officer MOS or enlisted MOS skill level based on discussion and consensus; and (4) to make specific comments and suggestions about MOS's (especially in those instances when neither educational credit nor advanced standing in an apprentice training program is recommended), which are forwarded by ACE to the Army for consideration.

Throughout the evaluation process, evaluators are encouraged to exercise professional judgment in applying the evaluative criteria and procedures. This position reflects the Commission's belief that sound educational evaluation is more dependent on professional judgment and expertise than on rigid application of criteria.

The Commission on Educational Credit and Credentials continually reviews its criteria and procedures. Evaluators are encouraged to provide feedback and recommendations for consideration by the Commission.

THE RECOMMENDATIONS

In order to interpret exhibits correctly, readers should become thoroughly familiar with the definitions and guidelines utilized by evaluators in formulating the recommendations. The following paragraphs include definitions and guidelines pertaining to categories of educational credit, the semester hour standard, categories of apprentice training, and clock hours and contact hours. The Commission policy on credit for military service, including basic and recruit training, is also given in this section.

Categories of Credit

Educational credit is a concept used by postsecondary institutions to quantify and record a student's successful completion of a unit of study. Postsecondary education consists of courses and programs of instruction for persons who are high school graduates or the equivalent, or who are beyond compulsory school age. ACE evaluators utilize the following categories of educational credit when formulating credit recommendations.

Vocational Certificate. This category describes course work of the type normally found in certificate or diploma (nondegree) programs that are usually a year or less in length and designed to provide students with occupational skills. This course work can also be found in curricula leading to associate degrees in applied science. Course content is specialized and the accompanying shop, laboratory, or similar practical components emphasize procedural more than analytical skills.

Lower-Division Baccalaureate/Associate Degree. This category describes course work of the type normally found in the first two years of a baccalaureate program and in programs leading to the Associate in Arts, the Associate in Science, or the Associate in Applied Science degree, the traditional transfer associate degrees. The instruction stresses development of analytical abilities at the introductory level. Verbal, mathematical, and scientific concepts associated with an academic discipline are introduced, as are basic principles. Occupationally oriented courses in this category are normally designed to prepare a student to function as a technician in a particular field.

Upper-Division Baccalaureate. This category describes courses of the type found in the last two years of a baccalaureate program. The courses involve specialization of a theoretical or analytical nature beyond the introductory level. Successful performance by students normally requires prior study in the area.

Graduate Degree. This category describes courses with content of the type found in graduate programs. These courses often require independent study, original research, critical analysis, and the scholarly and professional application of the specialized knowledge or discipline. Students enrolled in such courses normally have completed a baccalaureate program.

Semester Hour Standard

Credit recommendations are expressed in semester credit hours. In determining semester hour recommendations, evaluators use the following standard definitions:

1. One semester credit hour for the equivalent of 15 hours of classroom contact plus 30 hours of outside preparation; or
2. One semester credit hour for the equivalent of 30 hours of laboratory work plus necessary outside preparation, normally expected to be 15 hours; or
3. One semester credit hour for the equivalent of not less than 45 hours of shop instruction (contact hours).

Credit recommendations for courses are not derived by simple arithmetic conversion. Evaluators exercise professional judgment and consider only those portions of a course that can be equated with civilian postsecondary curricula. Intensive courses offered by the military do not necessarily require as much outside preparation as many regular college courses. Evaluators consider the factors of pre- and post-course assignments, prior work-related experience, the concentrated nature of the learning experience, and the reinforcement of the course material gained in the subsequent work setting.

The MOS recommendations are based on the skills, competencies, and knowledge learned, as demonstrated through proficiency in a given enlisted MOS skill level or in a given warrant officer MOS, without reference to how much time elapsed during the learning process. The semester hour is used as a standard to express how many semester hours of appropriate course work a student would normally complete to attain the same learning outcomes or attest to the same level of competency.

Apprentice Training

Apprentice training is the composite series of progressively more difficult learning experiences in the technology and skills of a tradesman. Apprentice training may be identified in clock hours or years of reasonably continuous on-the-job training and in contact hours of related instruction. On-the-job training and work experience focus on the performance of basic skills under the direct supervision of a journeyman. Related and supplemental instruction is normally closely correlated with on-the-job training, and the subject matter stresses practical application of technology. An *apprentice* is a person who is engaged in learning a trade by working with, and under the direct supervision of, a qualified journeyman in all phases of the trade for a specified period of time. A *journeyman* is a tradesman who has satisfactorily completed an apprentice training program or achieved proficiency in a given industry and who works without direct job supervision.

Evaluations resulting in apprenticeship recommendations have been restricted to enlisted MOS's in the areas of electronics/electricity and mechanical maintenance. Other apprenticeship-related MOS's have been evaluated only for postsecondary educational credit because the Army has already registered several apprenticeship programs with the Bureau of Apprenticeship and Training, U.S. Department of Labor.

Clock Hours and Contact Hours

An MOS recommendation for advanced standing in an apprentice training program is stated in clock hours of occupational experience and contact hours of related instruction. *Clock hours* are based on hours worked at a trade; *contact hours* are based on hours spent in the presence of a qualified instructor.

The enlisted MOS recommendations are based on the skills, competencies, and knowledge learned, as demonstrated through proficiency in a given MOS skill level, without reference to how much time elapsed during the learning process. Clock hours and contact hours are used to express how much of an apprentice training program an apprentice would normally complete to attain the same learning outcomes or attest to the same level of competency.

Other Recommendations

The Defense Activity for Non-Traditional Education Support (DANTES) maintains the educational records of the service men and women who have completed SSTs, CLEP examinations, and GED Tests.

The results of courses and tests taken under the auspices of USAFI (United States Armed Forces Institute; disestablished 1974) which carry academic credit and which were submitted prior to June 30, 1974, are available at no cost from DANTES Contractor Representative (transcripts), Box 2879, Princeton, New Jersey 08540.

Results of Subject Standardized Tests and CLEP examinations taken under the auspices of DANTES after July 1, 1974, are available at a nominal charge from: DANTES Contractor Representative (CLEP), Educational Testing Service, P.O. Box 2819, Princeton, New Jersey 08540.

Test reports for GED Tests taken after July 1, 1974, can be obtained from DANTES Contractor Representative (GED), GED Testing Service, American Council on Education, One Dupont Circle, Washington, D.C. 20036.

In addition, credit recommendations for USAFI courses and tests and for DANTES Subject Standardized Tests are available from the Office on Educational Credit and Credentials upon written request by education officials.

Appendix B

Enlisted Special Qualifications Identifiers

A Special Qualifications Identifier (SQI) is a letter used to indicate special qualifications possessed by an individual. The SQI, when it is used, occupies the fifth character position of the enlisted MOS designation, replacing the zero that normally occupies the position. For example, 12B40 is a skill-level designation for a combat engineer (MOS 12B); 12B4P is the designation for a person who holds 12B40 and is also qualified as a parachutist (SQI P).

Special Qualifications Identifiers are listed alphabetically in this appendix. Each SQI code is accompanied by a title and a brief description.

A **Technical Intelligence**
Identifies persons holding intelligence analyst positions who are able to identify and evaluate foreign materiel, systems, and technological developments.

B **Unit Race Relations Discussion Leader (Unit Interpersonal Relations Worker)**
Identifies persons who have completed the Unit Race Relations Discussion Leaders Course or who have completed equivalent command-sponsored training.

C **CBR (Chemical, Biological, and Radiological Warfare Operations)**
Identifies persons who have knowledge of CBR warfare operations and training techniques and who have completed appropriate training in CBR warfare operations and applicable training techniques.

D **Civil Affairs Operations**
Identifies persons qualified to assist in planning, directing, and coordinating activities that pertain to the civil population and its political, social, and economic institutions.

E **Northern Warfare Expert**
Identifies persons who have completed prescribed training at the Northern Warfare Training Center or who have received comparable training with a unit operating in an extreme northern environment to qualify them in military skiing, mountaineering, arctic river navigation, and movement and operating on glaciers.

F **Flying Status**
Identifies persons who are required to perform frequent and repetitive aerial flights.

G **Ranger**
Identifies persons who are Ranger-qualified and who have completed appropriate training at the Infantry School.

H **Instructor**
Identifies persons who are qualified to be full-time instructors or training advisers at an Army service school or in other organized training activity.

I **Installer**
Identifies persons who are qualified to install nonportable equipment systems or subsystems on a full-time duty basis.

J **SCUBA**
Identifies persons who are trained in skills and safety measures used in diving with self-contained underwater breathing apparatus (SCUBA) and who apply these skills in underwater reconnaissance, maintenance, vehicle recovery, and demolition.

K **Logistics Noncommissioned Officer**
Identifies persons who qualify as program members in the Army Logistics Systems.

L **Linguist**
Identifies persons who have achieved elementary proficiency in either listening comprehension or reading comprehension in one or more foreign languages.

M **First Sergeant**
Identifies persons who are qualified to assist commander in planning, supervising, inspecting, developing, and executing unit policy; to advise commander on enlisted personnel matters; to provide counsel and guidance to subordinate personnel; and to coordinate administration of the unit and support services.

N **White House Communications Agency**
Identifies persons assigned to the White House Communications Agency.

P **Parachutist**
Identifies persons who are qualified parachutists.

Q **Race Relations Instructor**
Identifies persons who have completed training in race relations education at the Defense Race Relations Institute.

R **Research, Development, Test, and Evaluation (RDTE)**
Identifies persons who are qualified in the design, development, test, or evaluation of military materiel, doctrine, methods, systems, or organization.

S **Special Forces**
Identifies qualified parachutists who have completed specialist training by the Special Forces Training Group of the U.S. Army John F. Kennedy Center for Military Assistance, completed similar training, or acquired equivalent qualifying experience.

T **Transition**
Identifies persons who have completed transition-type formal training on late-model equipment; this SQI is used in the MOS designation for up to three years following such training.

U **Track Personnel/Cargo Driver**
Identifies persons who are qualified to operate tracked personnel/cargo carrier vehicles.

V **Ranger-Parachutist**
Identifies persons who are qualified for the award of both SQI G and SQI P.

W **Psychological Warfare**
Identifies persons qualified in the analysis, development, or implementation of psychological warfare materiel.

X **Drill Sergeant**
Identifies persons who complete a Drill Sergeant training course conducted at an Army Training Center.

Y **Pathfinder**
Identifies qualified parachutists who have completed Pathfinder training at the U.S. Army Infantry School or who have acquired similar qualifications at unit schools with comparable programs of instruction and standards.

Z **Alcohol and Drug Abuse Prevention and Control Program**
Identifies persons who have met the following prerequisites: completion of U.S. Army Drug and Alcohol Rehabilitation Training or military or civilian experience in counseling or similar activities in the alcohol, drug abuse, or related fields, and formal recommendation and certification of qualification by a program behavioral scientist (psychiatrist, psychologist, or social worker).

Appendix C

Enlisted Additional Skill Identifiers

An Additional Skill Identifier (ASI) is a two-character code that is used to identify highly specialized skills that are in addition to the skills required for proficiency in a given enlisted MOS. The ASI is identified by a letter and a number, the sixth and seventh characters in the MOS designation. The skills content of each ASI requires a minimum of 10 days of formal training or equivalent on-the-job training.

Additional Skill Identifiers are listed alphanumerically in this appendix. Each ASI code is accompanied by a title and a brief description.

A1 DSCS SATCOM Controller
Performance of operational satellite communications controller functions.

A2 Aviation Safety
Planning and implementing aviation accident prevention measures.

A3 The Army Authorization Document System (TAADS)
Qualification to use The Army Authorization Document System (TAADS).

A4 International Morse Code (IMC)
Receiving IMC by radio at rate of 10 five-letter random code groups per minute without error for 3 consecutive minutes out of 5; transmitting using hand key at 10 five-letter randon code groups per minute without error for 2 consecutive minutes out of 3; and handling without error 15 plaindress (normal form) messages averaging 10 five-letter random code groups per hour in field radio net of 2 or more stations through natural interference.

A5 486L Wide Band Communications O/I Maintenance (formerly AN/MRC-85)
Maintenance of radio set AN/MRC-85.

A6 Multichannel Ciphony System TSEC/CY-104 (formerly AN/MRC-98)
Maintenance of Multichannel Ciphony System TSEC/CY-104, AN/MRC-98. Maintenance of radio set AN/MRC-98.

A7 TASS-AN/TTC-25, AN/TTC-38
Maintenance of automatic central office equipment TASS-AN/TTC-25 and AN/TTC-38.

A8 Meatcutting
Trimming, cutting, boning, and grinding of meat.

A9 Patrol Dog Handling
Use and handling of patrol dogs in detecting and detaining suspected law violators.

B1 Artillery Calibration
Calibration of field artillery weapons.

B2 Telephone Key System Installer
Installation and organizational maintenance of key telephone systems.

B3 Specialized Teletypewriter Equipment
Installation and maintenance of specialized teletypewriter equipment.

B4 Air Traffic Control/NAVAIDS Equipment Repair
Maintenance of ATC navigation aids communications equipment.

B5 AN/PRC-70 Radio Set Maintenance
Maintenance of radio set AN/PRC-70.

B6 AN/TSC-38
Maintenance of communications central radio set AN/TSC-38.

B7 Ejection Seat Repairer
Maintenance of MK-J5 ejection seat, 9E2A ejection training device, and survival kits for OV-1 aircraft.

B8 Forensic Crime Lab Specialist
Qualification as a crime laboratory specialist.

C1 Executive Club Manager
Management of a club with gross monthly sales in excess of $50,000.

C2 Dragon
Employment of the XM-47 Medium Antitank Assault Weapon System.

C3 Control Data Corporation 6000 Series
Operation of Control Data computer in the 6000 series.

C4 Technical Evaluation Program (TEP)
Technical and operational checks on major communications systems within the Army.

C5 M551 Master Gunner
Assessment of training and weapons, development of training programs, and conduct of training for M551, M60A1/A3 & M60/A2.

C6 M60A1/A3 Master Gunner
Assessment of training and weapons, development of training programs, and conduct of training for M60A1/A3.

C7 M60A2 Master Gunner
Assessment of training and weapons, development of training programs, and conduct of training for M60A2.

C8 Transcriber/Gister
Transcription and summarization of intercepted foreign language transmissions.

C9 Stereocompiler
Compilation and revision of planimetric and topographic maps using stereoscopic plotting instruments.

D1 Bread Baking
Ability to bake bread.

D2 Dermatology Specialist (formerly RCA 301-501)
Qualification to assist medical officers with skin disorders and laboratory procedures.
—RCA 301-501 operation of RCA computers 301 and 501.

D3 RCA 3301-Spectra
Operation of RCA computers 3301 and Spectra 70.

D4 Data Acquisition System (AS/GSQ-76) (formerly IBM 7000 Series)
Maintenance of AN/GSQ-76 components.
—IBM 7000 Series. Operation of IBM computer in the 7000 series.

D5 Ashworth/Becker Systems Maintenance (formerly FORTRAN 2nd Generation)
Maintenance of the Ashworth/Becker systems.
—FORTRAN 2nd Generation. Use of Formula Translation (FORTRAN) 2nd generation machine language in the development of computer programs.

D6 Lighter Air Cushion Vehicle Maintainer (formerly COBOL 2nd Generation)
Maintenance of the LACV-30 aircraft engines.

—COBOL 2nd Generation. Use of Common Business Oriented Language (COBOL) 2nd generation machine language in the development of computer programs.

D7 Common Precision Soldering
Ability to perform common precision soldering techniques.

D8 SAAL
Use of SAAL machine language (Single Address Assembly Language) in the development of computer programs.

D9 Enlisted Frequency Manager
Coordination, allocation, and assignment of radio frequencies.

E1 Propeller Assembly Maintenance
Maintenance of fixed-wing aircraft propellers, including hydraulic, electrical, and mechanical propeller systems.

E2 Shoe Repair
Inspection and repair of leather footwear, application of authorized prescribed orthopedic devices, and operation of shoe repair equipment.

E3 AN/FRC-113 Radio Set
Operation and/or maintenance of the AN/FRC-113 Radio Set Systems Equipment.

E4 Attache Specialist
Performance of general administrative duties in support of Defense Army Attache office located in an embassy of the United States of America.

E5 Terrain Analyst
Compilation and dissemination of terrain information to provide data for use in construction, mapping, and other operations.

E6 Lighter Air Cushion Vehicle Operator (formerly Supply Data Analysis)
Operation of the LACV-30.
—Supply Data Analysis. Analysis of forms, regulatory requirements, source data needs, and workflow pertaining to the supply reporting system.

E7 COMSEC Equipment Maintenance
Prior experience in communications security equipment maintenance through either MOS 32F (Fixed Ciphony Repair) or MOS 32G (Fixed Cryptographic Equipment Repair).

E8 WWMCCS
ADP programming and analysis for the Worldwide Military Command and Control System (WWMCCS).

E9 Improved TOW Vehicle (ITV) (formerly Document Storage and Retrieval Equipment)
Completion of ITV training.
—Document Storage and Retrieval Equipment.
Operation of complex document storage and retrieval equipment related to intelligence data handling systems.

F1 Special Forces Operations
Provision of Special Forces intelligence and operations, preparation and supervision of intelligence training programs, and application of counterintelligence principles to environmental situations.

F2 Intelligence Photography
Use of standard and special camera equipment in intelligence photography.

F3 Standard Army Intermediate Level Supply Subsystem (SAILS)
Completion of formal training in the Standard Army Intermediate Level Supply (SAILS) subsystem.

F4 Automated Property Book and Equipment Status Reporting
Knowledge of policies, terms, management procedures, and functional operations of automated property book and equipment status reporting system at the division supply level.

F5 Postal Operations
Handling of U.S. mail, money orders, and international mail.

F6 AN/FSG-21, Electronic Mixer, HLC-1A/TSEC
Maintenance on AN/FSG-21, Electronic Mixer, HLC-1A/TSEC.

F7 Field Artillery Digital Automatic Computer (FADAC)
Maintenance on the FADAC and ancillary equipment.

F8 Flight Simulator (UH1FS) Console Operator
Operation of the UH1FS flight simulator console and related functions to provide aviators practice in instrument flight techniques.

F9 Automated Supply Record Keeping and Supply Management
Use of the appropriate computer system to maintain and update supply accounts.

G1 UNIVAC 1004/1005/DCT-9000
Maintenance and operation of the card processor U-1005 and U-1004/DLT-6.

G2 Radar Signal Simulator AN/TPG-T1
Identification of simulator mechanic positions.

G3 NCR 500
Operation of the NCR 500 computer.

G4 Radar Engagement Simulator AN/TPQ-21
Identification of simulator mechanic positions.

G5 IBM 360
Operation of the IBM 360 computer.

G6 Radar Engagement Simulator AN/TPQ-29
Identification of simulator mechanic positions.

G7 Command and Control System
Operation of command and control systems equipment.

G8 DAME
Provision of advice concerning Defense Against Methods of Entry (DAME), including locking devices, lock security intrusion, detection devices, and building vault construction.

G9 DASE
Provision of advice concerning Defense Against Sound Equipment (DASE), including specialized electronic equipment and techniques used in detection and location of clandestine listening devices.

H1 Meteorological Equipment Repairer
Ability to repair functions in meteorological capabilities.

H2 Non-Morse Code Communications Analysis
Use of specialized analysis techniques pertaining to intercepted non-Morse code communications.

H3 Physical Security
Planning and implementing physical security measures to control pilferage, espionage, sabotage, and other physical security hazards; to prevent unauthorized entry; and to control entry, exit, and circulation of foot and vehicular traffic.

H4 Data Communications
Monitoring, testing, and analysis of the quality operational circuits between Automatic Digital Message Switching Center (ADMSC) and other switching centers; installation, operation, and maintenance of overseas Automatic Digital Network (AUTODIN) ADMSC; use of data communications machine language in development of computer programs for AUTODIN.

H5 STREAMLINER Communications Systems Operator
Operation of the STREAMLINER Communications System including IS/100 Control Panel, Optical Character Reader, Disk Storage Unit, Magnetic Tape Unit, and TT Model 40 Keyboard Display and Printer Units.

H6 TEMPEST Field Analyst (formerly Tempest)
Collection and on-site analyzing of data.

H7 Counseling Specialist
Provision of assistance to chaplains in counseling duties.

H8 Music and Drama Specialist
Direction of formal musical and dramatic religious productions.

H9 Army System for Standard Intelligence Support Terminal (ASSIST) (formerly SA 431 Telemetry Analog Production)
Performance of systems software programming/analysis on PDP 11/45 and 11/70 computers which employ RSX-11D operating system,

and IDHSC II communications software system, interfaces with WWMCCS (Honeywell) computers, uses JCL, and WWDMS data management system.

—SA431 Telemetry Analog Production.
Use of procedures and techniques of analysis of specific telemetry data.

J1 Telemetry Identification and Collection
Use of procedures and techniques of collection and identification of specific telemetry data.

J2 LEFOX Collection and Processing Systems (AN/FSQ-88(V))
Operation of the AN-FSQ-88(V) processing systems (LEFOX).

J3 Advanced Non-Morse Operations (formerly SC 260, A232-016)
Operation of the SC 260 computer.

J4 Special Signal Analysis
Analysis of special-type intercepted signal data.

J5 Technical Escort
Provision of safe and secure escort of shipments of chemical, biological, or etiological material and radioactive waste.

J6 Tandem Switch
Maintenance of tandem switching and associated equipment.

J7 High Speed (International Morse Code) Transmission and Receiving
Receiving International Morse Code by radio at the rate of 22 five-letter random code groups per minute without error for a period of 3 consecutive minutes out of 5 and transmitting at the rate of 18 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

J8 Photojournalist
Completion of the United States Air Force Photojournalist Course at Lowery Air Force Base, Colorado, or completion of a one-year photojournalist program at Syracuse University, or the equivalent.

K2 Senior Non-Morse Analyst
Use of specialized techniques in the analysis of selected Non-Morse signal data.

K3 Electronic Countermeasures Operations
Operation of electronic countermeasures equipment and devices.

K4 Mobile Floating Assault Bridge/Ferry (MAB)
Maintenance on the mobile floating assault bridge ferry.

K5 Weather Forecaster
Forecasting weather for meteorological teams.

K6 Senior Non-Morse Collector/Controller
Performance of supervisory technical controller, mission controller, and mission coordinator duties.

K7 Finance Data Analysis
Use of forms, transaction entries, verification procedures, and standardized codes for information processed in the Army's finance and accounting system.

K8 AN/FTC-31/SEVAC
Support of the automatic dial central office (AN/FTC-31) and the secure voice access console (SEVAC).

K9 UHF and VHF Operator
Operation of specialized very high frequency and ultra high frequency intercept equipment.

L1 AN/MSC-46 SATCOM Equipment System Maintenance
Maintenance of AN/MSC-46 Satellite System Equipment.

L2 OV-1D (Mohawk) Infrared Surveillance Repairman
Maintenance of the AN/ASS-24 infrared detecting set.

L3 AN/APS-94 (D) SLAROVID AN/AYA-10 Data Annotation System
Maintenance of the data annotator system of the airborne side-looking acquisition radar (SLAR) used on the OV-1D aircraft.

L4 Ammunition Stock Control and Accounting
Preparation and maintenance of records associated with receipt, storage, and issue of ammunition.

L5 Automatic HFDF Systems Operator (EELPOT) (formerly Automatic Message Address and Routing Systems) (AMARS)
Operation of the HFDF systems operator (EELPOT).

—Automatic Message Address and Routing Systems (AMARS).
Maintenance of the automatic multiple address routing system and tape.

L6 AN/TSC-86 SATCOM Equipment Systems Maintenance
Maintenance of the AN/TSC-86 Satellite Communications System equipment.

L7 SATCOM Communications Link Terminal AN/TSC-54
Maintenance of satellite communications link terminal AN/TSC-54.

L8 AN/AAS-24 and AN/APS-94 (OV-1D) Operation
Maintenance of AN/AAS-24 and AN/APS-94 radar equipment.

L9 Controlled Nuclear Surety
Qualification to hold controlled nuclear surety positions.

M1 Ship's Electrician
Maintenance of electrical equipment and systems on Army seagoing vessels and in marine repair shops.

M2 Mode V Digital Subscriber Terminal Equipment
Maintenance of Mode V (teletypewriter) and associated security equipment at a subscriber terminal of a data communications system.

M3 Dialysis Technician
Operation of dialysis equipment in treatment of patients with kidney disorders.

M4 Blood Grouping, Collecting, and Processing
Grouping, collecting, and processing whole blood on a volume basis.

M5 Nuclear Operations (8" Howitzer)
Assembly, disassembly, and prefire procedures for the 8-inch nuclear projectile.

M6 Nuclear Operations (155mm Howitzer)
Assembly, disassembly, and prefire procedures for the 155mm Howitzer.

M7 Nuclear Operations (Sergeant)
Assembly, disassembly, and prefire procedures for nuclear warhead in Sergeant weapon system.

M8 Nuclear Operations (Lance)
Assembly, disassembly, and prefire procedures for nuclear warhead in Lance weapon system.

M9 Emitter Location and Identification Techniques
Use of specialized identification techniques and communications electronics equipment to locate and identify signal emitters.

N1 Nuclear Operations (Pershing)
Assembly, disassembly, and prefire procedures for nuclear warhead in Pershing weapon system.

N2 Forward Area Alerting Radar (FAAR)
Maintenance of the Forward Area Alerting Radar.

N3 Circuit Conditioning
Testing, measurement, and adjustment of lines and circuits to insure high fidelity of communications within the Defense Communications System.

N4 Emergency Action Console
Maintenance and operation of the emergency action console.

N5 IATS Systems Controller
Operation of the IATS system.

N6 LEFOX Connection and Processing Systems Maintenance
Maintenance on the AN/FSQ-88(V) system.

N7 IBM 1401, 1410, 1440, 1460, and 1620
Operation of IBM computers 1401, 1410, 1440, 1460, and 1620.

N8 IATS System Maintenance
Maintenance of the IATS system.

N9 FORTRAN 3rd Generation
Use of Formula Translation (FORTRAN) 3rd generation machine language in development of computer programs.

P1 COBOL 3rd Generation
Use of Common Business Oriented Language (COBOL) 3rd generation machine language in development of computer programs.

P2 Assembly Language 2nd Generation
Use of Assembly Language 2nd generation machine language in the development of computer programs.

P3 Assembly Language 3rd Generation
Use of Assembly Language 3rd generation machine language in the development of computer programs.

P4 Heavy Anti-Tank/Assault Weapons System (TOW)
Use of tube-launched optically-tracked wire-guided (TOW) missiles against enemy armored vehicles.

P5 Sentry Dog Handling
Use and handling of sentry dogs as a means of security.

P6 Scout Dog Handling (On/Off Leash)
Use and handling of scout dogs trained in on-leash and off-leash obedience and capable of giving early warning of enemy presence or traps.

P7 Narcotics Drug Dog Detector (formerly Contraband Detector Dog Handling)
Training and handling dogs capable of detecting presence of marijuana and its derivatives by scent alone.

P8 Critical Nuclear Surety
Qualification to hold critical nuclear surety positions.

P9 Mine/Tunnel Dog Handling
Use and handling of dogs capable of finding mines or traps and ordnance cached in tunnels.

Q1 Welder
Welding of aircraft structure and components using oxyacetylene, electric arc, and inert gas welding equipment.

Q2 Combat Tracker Dog Handling
Use and handling of dogs used in combat tracker teams and capable of basic and advanced tracking.

Q3 Tank Turret Maintenance Supervision
Supervision of maintenance of tank turrets.

Q4 MINCOM TICOR Recorder (AN/GSR-4)
Maintenance of specialized recording equipment (wideband).

Q5 Chapel Activities Specialist—Catholic (formerly Chaplain's Assistant)
Knowledge of Catholic religious beliefs and rituals.

Q6 Chapel Activities Specialist—Protestant (formerly Chaplain's Assistant)
Knowledge of Protestant religious beliefs and rituals.

Q7 Chapel Activities Specialist—Jewish (formerly Chaplain's Assistant)
Knowledge of Jewish religious beliefs and rituals.

Q8 Nuclear Operations (HJ)
Assembly, disassembly, and prefire procedures for nuclear warhead in Honest John weapon system.

Q9 Traffic Accident Investigator
Reconstruction of traffic accidents from evidence to determine reasons for occurrence, possibility of avoidance, and determination of fault.

R1 MOD 37D Teletypewriter Maintenance
Maintenance of the MOD 37D Teletypewriter (AN/FGC-158).

R2 Nuclear Operations (Hercules)
Assembly, disassembly, and prefire procedures for nuclear warhead in Hercules weapons system.

R3 Nuclear Security
Physical security and emergency destruction of nuclear weapons during movement in storage and in tactical operations.

R4 Automated HFDF System Maintenance (EELPOT)
Maintenance of the EELPOT system.

R5 AN/ASN-86 Inertial Navigation Set
Maintenance of the AN/ASN-86 inertial navigation equipment used on Mohawk aircraft.

R6 Redeye Operations
Use of Redeye missile system to engage enemy aircraft.

R7 DSSCS Maintenance
Maintenance of the Defense Special Secure Communications System Message equipment.

R8 M551 Sheridan
Operation of M551 Sheridan combat vehicle.

R9 STRAWHAT/DSSCS
Maintenance of specialized equipment used in the STRAWHAT/defense special secure communications system (DSSCS).

S1 Special Purpose Receiving Equipment
Maintenance of special purpose receiving equipment.

S2 Power Station Mechanic
Maintenance of mechanical equipment used in electrical power production.

S3 Power Station Electrician
Maintenance of electrical equipment used in electric power production.

S4 Power Station Instrument Repairer
Maintenance and calibration of electrical power plant monitoring and control instrumentation equipment.

S5 Power Station Health Physicist
Use of radiological surveys and fluid processing treatment ensuring acceptable levels of radiation

S6 Digital Converting Programming Group AN/TC A-4
Maintenance of specialized demultiplex equipment assemblages.

S7 Scope Safe System
Maintenance of specialized equipment in a secure communications system.

S8 M16 Ballistics Computer
Maintenance of M16 ballistics computer.

S9 Defense Sensor Interpretation Training Program
Microscale interpretation, electronic data reporting, storage, retrieval.

T1 Overseas AUTOVON Switch
Maintenance on switching equipment in the overseas automatic voice network (AUTOVON).

T2 Sniper
Highly accurate sharpshooting, usually at long range.

T3 GE 600/Honeywell 6000
Operation of the General Electric 600 and Honeywell 6000 computers.

T4 Power Plant Chief
Supervision of electric power production facility.

T5 Burroughs B-3500
Operation of data processing computer B-3500 (Burroughs Corporation).

T6 Electroencephalograph Operator (EEG)
Operation of EEG equipment.

T7 Improved TOW Vehicle (ITV) Turret Mechanic
Maintenance of the ITV turret.

T8 DS4/Direct Support Unit Standard Supply System
Use of DS4 system to maintain and update supply accounts in divisional units.

T9 Cryptanalysis
Analysis of encrypted communications to determine system of encryption and to effect eventual solution.

U1 Radio Teletype Analysis
Analysis of intercepted radio teletype signals.

U2 Cytotechnology
Staining, mounting, and microscopic examination of cells to detect

evidence of cancer and other pathological conditions which must be referred to a pathologist for final interpretation.

U4 Property Disposal Operations
Property administration or materials segregation and classification.

U5 Commissary Operations
Commissary operations such as sales, stock replenishment, and produce, grocery department, or general administration.

U6 FA Weapons Mechanic
Maintenance of field artillery (FA) weapons.

U7 Film Library Operations
Cataloging, receiving, and administering audio-visual equipment and material.

U8 DAS3 Operator/DS4
Operation of the DAS3 computer system/DS4, Direct Support Unit Standard Supply System.

U9 ICR Non-Morse Operations
Collection analysis, reporting and forwarding of ICR Non-Morse Communications signals; operation of AN/TCA-4 (KINDER) Digital Converting Programming Group and the AN/GYK-9 (FLEXSCOP) collection and processing system.

V1 AMOSIST
Use of the Automated Military Outpatient System (AMOSIST) for triaging patients to acute minor illness clinic, emergency treatment room, or appropriate specialty clinic.

V3 Unattended Ground Sensor Systems Maintenance
Maintenance of unattended ground sensor systems.

V4 Communications Technical Control Center, AN/TSQ-84
Maintenance of the AN/TSQ-84 communications center.

V5 Military Police Investigation
Investigation of criminal offenses for which the maximum punishment is confinement at hard labor for less than one year and offenses involving larcenies of property valued at less than $250 and involving another major crime.

V6 Spectrometric Oil Analysis
Analysis of used oil for wear metal content, using the fluid analysis spectrometer A/E 35U-3 and appropriate analytic and evaluation techniques.

V7 Honeywell H200
Operation of the Honeywell H200 computer.

V8 UNIVAC 1106/1108
Operation of the UNIVAC 1106/1108 computer.

V9 Control Data CDC 3300
Operation of the Control Data Corporation CDC 3300 computer.

W1 M60A2 Tank
Operation of the M60A2 tank.

W2 AN/TPQ-29 Repair Simulator Station Repair
Maintenance of the AN/TPQ-29 Simulator Station.

W3 Video Technical Control Facility (AN/TSQ-85) Repairman
Maintenance of the AN/TSQ-85 video technical control facility.

W4 AN/FLR-9 Intercept Equipment Maintenance (formerly AN/TLR-9 Intercept Equipment)
Maintenance of the AN/FLR-9 intercept equipment.

AN/TLR-9 Intercept Equipment

Maintenance of the AN/TLR-9 intercept equipment.

W5 Personnel Data Analysis (formerly W6)
Use of forms, transaction entries, verification, procedures and standardized codes for information processed through SIDPERS.

W7 Special Forces Underwater Operations
Participation in Special Forces underwater operations.

W8 Special Forces Military Free Fall
Participation in Special Forces military operations requiring free-fall parachuting.

W9 Special Forces Military Free Fall and Underwater Operations
Participation in both Special Forces free-fall parachuting and underwater operations.

X1 Subsistence Procurement Quality Assurance Inspector
Assurance of the quality of procurement.

X3 TACFIRE Remote Terminal Operator
Operation of variable format message entry device as part of TACFIRE in FA unit.

X4 Photolocator Operator
Operation of the photolocator in FA survey unit.

X6 TSEC/KG-45 Repairer
Maintenance of the TSEC/KG-45 equipment.

X7 AN/MPQ-49 FAAR Radar Mechanic
Qualification as FAAR radar mechanic.

X8 COMSEC Systems Maintenance at SRA Maintenance of the COMSEC systems at the specialized repair activity (SRA) level

X9 General COMSEC Maintenance at SRA
General maintenance of the COMSEC systems at the SRA level.

Y1 TACFIRE Equipment Repairer
Maintenance on TACFIRE equipment.

Y2 Ground Laser Locator Designator (GLID) Repairer
Maintenance on GLID equipment.

Y3 Safeguard
Completion of three-week Safeguard Missile Defense System Orientation course, Fort Bliss, Texas.

Y4 Advanced Morse Identification—Signal Search and Development (Morse) (formerly Morse Search and Development)
Specialized search and development of target for intercept.

Y5 TEMPEST Inspection
Inspection of TEMPEST systems to assure cryptographic security.

Y6 Cardiac Catheterization Specialist
Assistance during specialized invasive cardiac test and examination.

Y7 Sterile Pharmacy Techniques
Sterile pharmacy practices leading to the preparation of items such as intravenous additives used to combat infection, restore and maintain electrolyte balance, and meet nutritional requirements.

Y8 Allergy Specialist
Qualification to prepare allergan extracts, perform diagnostic tests, and administer parental hyposensitization treatments.

Y9 STREAMLINER Maintenance Specialist
Maintenance of specialized equipment used in the STREAMLINER communications system.

Z1 Reciprocating Engine Repairman
Maintenance of aircraft reciprocating engines.

Z2 Blacksmith
Working, forming, and shaping heated metal, using forge, anvil, and hammer.

Z3 Pipeline Weld Radiographic Inspection Set
Operation of radiographic inspection set for pipeline welds.

Z4 Inspector General NCO
Completion of orientation course and performance of inspector general duties.

Z5 Modular Engine Test Stand (METS)
Maintenance on the Modular Engine Test Stand (METS).

Z6 Explosive Detector Dog Handler
Use and handling of dogs capable of detecting explosives.

Z8 Depot-Level Maintenance
Depot-level maintenance (disassembly, major repairs and modifications, and inspection) of aircraft.

Z9 SB-3082 Electronic Cordless Semi-Automatic Switchboard and AN/TTC-38 Ancillary Equipment
Installation and maintenance of the SB-3082 switchboard and maintenance of AN/TTC-38 ancillary equipment such as telephones and converters.

Appendix D

Enlisted Career Management Fields

A career management field (CMF) is a grouping of related Army enlisted MOS's that is provided for use in the career development and counseling of enlisted personnel. Each career management field is structured to allow maximum upward mobility and follows a logical progression of related MOS's, ranging from trainee positions to leadership and supervisory positions.

The CMF is represented by a two-digit number and a title. When a CMF has a subfield, a third number is added to identify it. For example, CMF 52 (Power Production) has two subfields: Subfield 521 (Electric and Power Production) and subfield 522 (Nuclear Power Production). Each subfield includes only closely related MOS's.

This appendix provides summaries which outline the duties and qualifications of the CMF's and list the subfields they contain.

00 Exceptional Management Specialties

A grouping of MOS's that are unrelated and must be considered individually. These MOS's are categorized as either special assignments (subfield 000) or those requiring professional skills (subfield 001). Qualifications vary considerably according to MOS.

11 Infantry (formerly Maneuver Combat Arms—see below)

A group of MOS's that covers positions primarily in infantry units. Infantry duties involve use of individual and crew-served weapons and armored vehicles.

Maneuver Combat Arms

A grouping of MOS's that covers positions primarily in infantry units and armor units. Subfields include: General (110); Infantry (111); Armor (112). Infantry duties involve use of individual and crew-served weapons and armored vehicles and work in closely coordinated teams. Armor duties involve use of crew-served armor weapons and armored vehicles and work in closely integrated teams. Qualifications include knowledge of fundamental tactics, principles of fire and movement, use of individual light weapons, principles of field sanitation, protection from chemical contamination, map and aerial photo reading, use of compass, first aid, and preparation of rough maps and field sketches.

12 Combat Engineering

A grouping of MOS's that covers positions in engineer combat units. Duties involve construction tasks (roads, temporary shelters, bridges, rafts), laying and clearing of minefields, and conventional and atomic demolitions. Qualifications include ability to use power and hand tools, knowledge of rough carpentry and rigging, ability to identify and handle demolition ammunition, skill in operating small watercraft, and ability to fight in infantry units.

13 Field Artillery (formerly Field Artillery Cannon)

A grouping of MOS's that covers positions in field artillery cannon, missile, and target acquisition units. Subfields include: Field Artillery General (130); Field Artillery Cannon/Missile Operations (131); Field Artillery Target Acquisition Operations (132). Duties involve operation, fire direction, and maintenance of field artillery guns and related weapons and working in closely controlled teams. (Prior to 9/76, CMF 13 was limited to MOS's that covered positions in field artillery cannon units only.)

15 Field Artillery Missiles

A grouping of MOS's that covers positions primarily in field artillery missile units. Duties involve emplacement, testing, and operation of field artillery missile systems. Qualifications include knowledge of the functioning, assembly, and testing of a wide variety of complex weapons systems. Effective 9/76, CMF 15 was eliminated and the MOS's were reclassified under CMF 13 (Field Artillery).

16 Air Defense Artillery (ADA)

A grouping of MOS's that covers positions primarily in air defense units. Subfields include: ADA General (160); ADA Missile and Gun Operations (161); ADA Operations and Intelligence (162). Duties involve emplacement, assembly, testing, and operation of air defense weapons systems. Qualifications include knowledge of the functioning, assembly, and testing of highly intricate weapons systems.

17 Combat Surveillance and Target Acquisition

A grouping of MOS's that covers positions primarily in artillery units. Subfields include: General (170); Combat Surveillance (171); Target Acquisition (172). Duties involve operation of combat surveillance and target acquisition systems. Qualifications include ability to determine locations, distance, direction, and elevations from topographic maps; knowledge of artillery plotting procedures; familiarity with the function and operation of combat surveillance and target acquisition systems; and knowledge of basic mathematics. Effective 9/76, CMF 17 was eliminated; the target acquisition MOS's were reclassified under CMF 13 (Field Artillery) and the combat surveillance MOS's were reclassified under CMF 96 (Military Intelligence).

19 Armor

A grouping of MOS's that covers positions in armor combat units and in headquarters or higher level. Duties primarily involve mechanized reconnaissance or employment of crew-served armor weapons systems and armored vehicles.

21 Ballistic Missile Repair

A grouping of MOS's that covers positions in field artillery units and in maintenance units. Subfields include: Pershing Missile Repair (211); Sergeant Missile Repair (212). Duties involve maintenance of missiles and related equipment. Qualifications include knowledge of the functioning, assembly, testing, and maintenance of complex weapons systems.

23 Air Defense Missile Maintenance

A grouping of MOS's that covers positions in air defense units and in missile maintenance units. Subfields include: Nike Missile System Repair (231); Nike Missile System Mechanics (232); Hawk Missile System Repair (233); Hawk Missile System Mechanics (234); Improved Hawk Missile System Mechanics (235); Improved Hawk Missile System Repair (236); Ballistic Missile Defense (237); Fire Distribution Systems Repair (238). Duties involve assembly and testing of air defense weapons and maintenance of missiles, guidance equipment, fire control equipment, fire distribution systems, radar, and computers. Qualifications include knowledge of functioning, assembly, testing and maintenance of Safeguard weapons systems, electromechanical and hydraulic basis of remote antenna positioning, and knowledge of binary system.

26 Non-Integrated Radar Maintenance
A grouping of MOS's that covers positions primarily in signal corps units. Subfields include: Radar Mechanics (261); Ground Radar Repair (262); Airborne Surveillance Equipment Repair (263). Duties involve maintenance of radar equipment. Qualifications include knowledge of fundamentals of electricity/electronics, precautions required in working with high voltage equipment, and use of schematic diagrams and electrical measuring devices.

27 Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance (formerly Combat Missile Maintenance—see below)
A grouping of MOS's that covers positions primarily in field artillery units and in maintenance units. Subfields include: Ballistic/LC Missile and LAD Weapons Systems Maintenance General (270); Ballistic/LC Systems Maintenance (271); LAD Systems Maintenance (272). Duties involve maintenance on weapon systems and associated test, trainer, and maintenance checkout equipment.

Combat Missile Maintenance
A grouping of MOS's that covers positions primarily in field artillery units and maintenance units. Subfields include: Combat Missile Mechanics (271); Combat Missile Repair (272). Duties involve maintenance and repair of various weapons systems. Qualifications include knowledge of the functioning, assembly, testing, maintenance, and calibrations of various complex weapons systems.

28 Aviation Communications—Electronics Systems Maintenance
A grouping of MOS's that covers positions primarily in maintenance, aviation, and signal units. Duties involve maintenance on a variety of photographic, surveillance, and avionic equipment.

29 Communications—Electronics Maintenance
A grouping of MOS's that covers positions primarily in combat arms, aircraft, signal, and maintenance units. Duties involve maintenance for combat surveillance and weapons support radar, field radios, teletypes, unattended ground sensor systems, troposcatter radios, fixed plant communication equipment, electrical/electronic and mechanical instruments, manual, dial central office telephone exchange, and automatic electronic switching equipment.

31 Communications—Electronics Operations (formerly Field and Area Communications Maintenance—see below)
A grouping of MOS's that covers positions primarily in signal and tactical units. Duties involve operation and maintenance of field radios, teletypes, radio relay equipment, unattended ground sensor systems, troposcatter radios, and tactical electronics equipment and wire/cable.

Field and Area Communications Maintenance
A grouping of MOS's that covers positions primarily in signal corps units. Subfields include: Field Communications Maintenance (311); Tactical Electronics Maintenance (312); Area Communication (313); COMSEC Maintenance (314). Duties involve maintenance and repair of various tactical electronics equipment.

32 Fixed Plant Communications Maintenance
A grouping of MOS's that covers positions primarily in U.S. Army Communications Center (USACC) units. Duties involve operation and maintenance of fixed plant communications equipment. Qualifications include knowledge of the theory of operation and repair of fixed station electronic equipment, fundamentals of radio propagation, and precautions when working with high-voltage equipment.

33 Electronic Warfare/Intercept Systems Maintenance
Duties involve repair, maintenance, or supervision of repair of EW/Intercept systems used in both mobile and fixed sites. Qualifications include knowledge of tools commonly used by electricians and electronic workers, safety precautions required in working with electrical equipment, ability to read wire diagrams and technical manuals, and categories of equipment maintenance.

35 Electrical/Electronic Instrument Maintenance
A grouping of MOS's that covers positions primarily in maintenance, aircraft, and medical units. Subfields have included: Instrument Calibration and Maintenance (351); Electrical/Electronic Devices Maintenance (352); Avionics Maintenance (353); Medical Equipment Maintenance (354). Duties involve calibration and performance of all levels of maintenance and repair of various electrical/electronic and mechanical equipment.

36 Wire, Antenna, and Central Office Maintenance
A grouping of MOS's that covers maintenance positions primarily in signal corps units. Duties involve installation and maintenance of field wire, open wire, and cable communications systems; antenna systems; splicing communications cables; and maintenance on manual and dial telephone exchange equipment. Qualifications include knowledge of fundamentals of electricity and sound transmission, reading and understanding circuit diagrams, and techniques and maintenance involved in the installation and maintenance of wire systems.

51 General Engineering
A grouping of MOS's that covers positions primarily in engineer units. Subfields include: Construction Engineering (511); Utilities Engineering (512); Industrial Gas Production (513); Construction Equipment Operation (514). Duties involve use of construction skills (including construction surveying and drafting) for erection and maintenance of buildings, bridges, port facilities, roads, air fields, drainage structures, pipelines, storage tanks, and related facilities.

52 Power Production
A grouping of MOS's that covers positions primarily in nuclear power plants and in other engineer units. Subfields include: Electrical Power Production (521); Nuclear Power Production (522). Duties involve operation and maintenance of power-generating equipment, transmission systems, and accessory equipment; maintenance of nuclear power plant equipment; and radiological surveys.

54 Chemical
A grouping of MOS's that covers positions in chemical units, supply and service units, and in headquarters of battalion and higher level. Duties involve operation of flame equipment; decontamination of personnel, materiel, structures, and areas that have been under nuclear, biological, or chemical attack; generation of smoke for concealment and camouflage effect; staff activities relating to operations, training, and intelligence; chemical and physical testing of clothing, food, chemicals, paints, plastics, and similar materials. Qualifications include knowledge of safety precautions for work in contaminated areas and handling of chemical warfare materials, types and purpose of chemical agents, characteristics and uses of smoke, and effect of weather on chemical materials.

55 Ammunition
A grouping of MOS's that covers positions in ammunition support units Army-wide. Duties involve support, supply, inspection, renovation, disposal, and maintenance of conventional, special, and nuclear ammunition. Qualifications include knowledge of the hazards and safety measures involved in handling, storing, transporting, destroying, and neutralizing various types of ammunition, ammunition components, and nuclear weapons.

57 Field Services
A grouping of MOS's that covers positions primarily in supply and service, supply and transportation, and field service units. Subfields include: Field Service General (570); Services (571); Memorial Activities (572); Textile Renovation (573). Duties involve repair and alteration of textile, canvas, and leather supplies and equipment; laundry, bath and impregnation functions; memorial activities; supervising general work details; and general labor services. Effective 3/77, CMF 57 was eliminated and the MOS's were reclassified under CMF 76 (Supply).

63 Mechanical Maintenance
A grouping of MOS's that covers positions primarily in support maintenance units. Subfields include: Precision Devices (631); Metalworking (632); Machinery Maintenance (633); Armament Maintenance (634). Duties involve maintenance of mechanical

and electromechanical equipment. Qualifications include knowledge of handtools and metalworking tools, safety precautions, blueprint reading, and technical manuals.

64 Transportation

A grouping of MOS's that covers positions primarily in transportation units. Air operations MOS's cover positions in aviation units; motor transport MOS's cover positions in units Army-wide. (Prior to 3/76, the designation for transportation MOS's was CMF 65.) Subfields have included: Movements Control (650); Terminal Service (651); Motor Transport (652); Marine (653); Railway (654); Air Operations (655). Subfields now include: Surface Operations (641); Marine Operations (642); Railway Operations (643); Air Operations (644). Duties involve operation and preventive maintenance of light, heavy cargo, and passenger vehicles; operation and maintenance of railway rolling stock and marine harborcraft; air traffic control; and movements control.

65 Transportation

Effective 3/76, CMF 65 was eliminated and the MOS's were reclassified under CMF 64.

67 Aviation Maintenance (formerly Aircraft Maintenance)

A grouping of MOS's that covers positions in all types of aviation units Army-wide. Subfields include: Aircraft Maintenance (671); Aircraft Components Repair (672). Duties involve servicing and maintenance of aircraft, aircraft components, armament subsystems, and target aircraft. Qualifications include ability to use handtools, instruments, and gauges; ability to understand and interpret oral and written technical instructions, plans, blueprints and schematic diagrams; and specific mechanical, electrical, and electromechanical skills.

71 Administration

A grouping of MOS's that covers positions in units Army-wide. Subfields have included: General Administration (711); Personnel (712); Finance (713); Legal (714); Information (715); Special Services (716). Duties involve general administration; personnel, legal, medical, and other specialized administration; postal service; clerical work; fiscal accounting; newspaper, radio, and television communication; and supervision of recreational activities. Qualifications include: basic clerical, typing, bookkeeping, stenography, and communication abilities and knowledge of clerical and administrative procedures, office management, preparation and use of military publications and correspondence, preparation and routing of orders, design and use of filing systems, and record keeping.

72 Telecommunications and Audio Visual

A grouping of MOS's that covers positions in radio, radio-teletype, and communications center facilities Army-wide; audiovisual MOS's cover positions in signal corps units and maintenance units. Subfields include: Communications Operations (721); Audio Visual (722). Duties involve operation of radio, teletype, telephone and data equipment; and transmission, reception, and delivery of Army communications. Effective 3/77, Subfield 722 was eliminated and the MOS's were reclassified under CMF 84 (Public Affairs and Audio Visual).

74 Automatic Data Processing

A grouping of MOS's that covers data processing positions in units engaged in data processing, personnel, communications, finance, and supply. Subfields include: Data Processing Equipment Operations (741); Data Processing Equipment Maintenance (742). Operational duties involve systems analysis, programming, computer operations, and coding data for use with punched cards, magnetic tapes, and disks. Maintenance duties involve maintenance on tabulating equipment, automatic data processing equipment, viewer computer systems, and related test equipment. Maintenance MOS's require electronic and mechanical aptitude, number facility to solve formulas used in test computations, ability to make delicate adjustments and repairs, and perceptual speed for reading circuit diagrams and mechanical blueprints.

76 Supply

A grouping of MOS's that covers positions in all types of units Army-wide. Effective 3/77, subfields include: Supply General (760); Supply (761); Service (762). Duties may involve procurement, receipt, storage, issue, and administrative control of all classes of supplies, spare parts, and materiel (except ammunition, nuclear materials, and petroleum). Qualifications include: knowledge of standard supply records and clerical procedures, standard quantity measurements, color codes used to identify supplies, supply catalogs for identification of supply items, safety precautions involved in moving and storing supplies, and operation of office machines without minimum speed requirement.

79 Recruitment and Reenlistment

Two MOS's primarily concerned with recruiting personnel for Army service and operating the reenlistment system. Duties involve contacting prospective enlistees/reenlistees, counseling concerning job and career opportunities in the Army, and performing administrative functions necessary to accomplish enlistment or reenlistment.

81 Topographic Engineering (formerly Topographic Engineering and Map Reproduction)

A grouping of MOS's that covers positions primarily in engineering units. Subfields have included: Drafting (811); Surveying (812); Map Reproduction and Printing (813). Subfields now include: Topographic Engineering (810); Cartography (811); Surveying (812); Photolithographer (813). Duties involve topographic survey, map making, reproduction, and printing; topographic instrument and reproduction equipment repair, terrain analysis, and illustrating and model making.

84 Public Affairs and Audio-Visual

A grouping of MOS's which are used for Public Affairs and audio-visual activities Army-wide. Duties consist of newspaper, radio and television communications, maintenance of radio and television equipment, still and motion picture photography, audio-visual equipment repair, and graphic illustrator.

91 Medical

A grouping of MOS's that covers positions in medical units Army-wide. Subfields have included: Prosthetic Appliances (911); Patient Care (912); Physical Medicine (913); Medical Services (914). Subfields now include: Dental (911); Patient Care (912); Health Services (913); Medical Support (914). Duties involve medical care and treatment; medical laboratory testing and analysis, and fabrication and repair of prosthetic appliances. Qualifications include knowledge of the organization and functions of the Army medical service; basic anatomy, physiology, first aid and emergency medical treatment; nomenclature and usage of basic drugs; transportation of sick and wounded; field sanitation; basic nursing techniques; basic principles of disease prevention.

92 Petroleum

A grouping of MOS's that covers positions in petroleum storage and laboratory units. Duties involve receipt, storage, preservation, and distribution of bulk and packaged petroleum products and standard physical and chemical testing of petroleum products.

94 Food Service

A grouping of MOS's that covers positions in the following areas: company, consolidated, and hospital food service activities; bakeries; meat-cutting plants; food service elements of headquarters; and personal staffs of general officers. Duties involve preparation and cooking of food; food service advisory and administrative activities; and service as enlisted aide or cook on the personal staff of a general officer. Qualifications include knowledge of sanitary standards and safety precautions, subsistence storage principles, and use of food service machinery and equipment.

95 Law Enforcement

A grouping of MOS's that covers law enforcement positions. Duties involve patrolling areas, apprehending violators, controlling traffic, quelling disturbances, protecting security sites, guarding military prisoners and prisoners of war, providing correctional treatment for military prisoners in confinement facilities, criminal investigation, and criminal laboratory analysis.

96 Military Intelligence

A grouping of MOS's that covers positions primarily in military intelligence units and in intelligence staff sections in other units. Effective 9/76, subfields include: Controlled Intelligence (961); Technical Intelligence Production (962); Tactical Intelligence Surveillance (963). Duties may involve the collection, analysis, protection, and dissemination of intelligence information through observation, compilation, investigation, survey, language translation and interpretation; electronic listening and sensing; photograph and image interpretation; censorship; technical analysis of enemy equipment; and application of security programs.

97 **Band**

A grouping of MOS's that covers positions in band units Army-wide. Subfields include: Brass (971); Woodwind (972); Percussion (973); Band Leadership (974); Special Band (975). Duties involve playing brass, woodwind, or percussion instruments in marching, concert, dance, stage, and show bands; playing in combos and instrumental ensembles; and singing in vocal groups and writing and arranging music, when assigned. Qualifications include ability to play one or more band instruments; musical memory for playing compositions without sheet music; and ability to perform certain musical scores at sight.

98 **Electronic Warfare (EW) Cryptologic Operations**

A grouping of MOS's that cover positions in fixed and mobile units engaged in support of strategic and tactical operations. Duties involve collection of electromagnetic emissions, analysis of these emissions, security of friendly communications and noncommunications, and electronic warfare operations.

Appendix E

Warrant Officer Special Qualifications Identifiers

Special Qualifications Identifiers are used with warrant officer MOS's to identify special qualifications possessed by an individual. The SQI is either a number or a letter; it occupies the fifth character of an MOS designation, replacing the zero that normally occupies that position.

Award of an SQI other than zero may mean that a person's records will show the title of the SQI rather than the title of the MOS. For example, the title for MOS 951AO is Criminal Investigator; the title for MOS 951AK will normally appear as Polygraph Examiner.

The Special Qualifications Identifiers listed below are arranged by the numeric codes first, then by the alphabetic codes. Each SQI is accompanied by a title and a brief description.

1 **Master of Coastal Vessels up to 250 Tons *or* Chief Engineer of Coastal Vessels up to 750 Horsepower**

Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

2 **Master of Coastal Vessels up to 500 Tons *or* Chief Engineer of Coastal Vessels up to 1,200 Horsepower**

Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

3 **Master of Oceans Unlimited Vessels *or* Chief Engineer of Oceans Unlimited Vessels**

Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

4 **Harbormaster/Pilot *or* Marine Inspector (formerly Research, Development, Test, and Evaluation Technician—see SQI "Z")**

Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

5 **Power Systems Technician (formerly Nuclear Power Plant Superintendent—see below)**

Identifies person who are qualified to supervise operations and maintenance of high-voltage power stations and transmission systems.

Nuclear Power Plant Superintendent

Identifies persons who are qualified to supervise operations and maintenance of power plants equipped for nuclear power generation and who have completed the Nuclear Power Plant Operator course at the U.S. Army Engineer School and the Radiological Safety course, at the U.S. Army Ordnance School.

6 **Instrument Flight Examiner**

See SQI "F."

7 **Parachutist**

Identifies persons who have completed airborne training.

8 **Instructor**

Identifies persons qualified as full-time formal instructors at an Army Service School or other organized training facility.

9 **Safeguard System Technician (formerly Safeguard)**

Identifies persons who have completed the Safeguard Missile Maintenance Technician course or who have completed at least six months work experience with Safeguard system tactical support equipment.

A **Air Traffic Control Technician**

Identifies persons who are qualified to manage air traffic control operations and procedures and who have completed the Officer/Warrant Officer Air Traffic Control course at the U.S. Army Aviation School.

B **Flight Safety Technician**

Identifies persons who are qualified to manage aviation unit flight safety programs.

C **Instructor Pilot**

Identifies persons qualified to instruct student and aviator personnel in the fundamentals of flight, to analyze flight training maneuvers, and to check out aviators on new equipment and aircraft.

D **Aeromedical Evacuation Pilot**

Identifies persons who are qualified in the procedures and techniques of aeromedical evacuation and who have completed the Army Medical Service Aviator course or have had equivalent experience.

E **Aircraft Armament Maintenance Technician (formerly Aircraft Armament Maintenance)**

Identifies persons who are qualified to supervise maintenance and repair of aircraft armament systems and who have completed the Aircraft Armament Repair Supervisor course or have equivalent experience.

F **Instrument Flight Examiner**

Identifies persons who are qualified to conduct written and flight examinations of aviators for award or retention of instrument certificates and who have completed the Instrument Flight Examiner course at the U.S. Army Aviation School.

G **Aircraft Maintenance Technician (formerly Investigative Photography—see SQI "N")**

Identifies persons who are qualified to supervise maintenance and repair of aircraft and who have completed the Maintenance Resource Management and Maintenance Operations phase of the Aircraft Maintenance Officers course at the U.S. Army Transportation School.

H **Aerial Scout (formerly Defense Against Methods of Entry (DAME)—see ASI "9K" in the Warrant Officer Additional Skill Identifiers Appendix)**

Identifies persons who have performed aerial scout duties for a minimum of 60 days or who have completed the Air Cavalry/Attack Helicopter Commander Training course or the Air Cavalry Qualifications course at the U.S. Army Armor School.

J **Engineering Test Pilot (formerly Maintenance Test Pilot—see below)**

Identifies persons who have successfully completed the U.S. Naval Test Pilot School.

Maintenance Test Pilot (formerly Defense Against Sound Equipment (DASE)—see ASI "9L" in the Warrant Officer Additional Skill Identifiers Appendix)

Identifies persons who are qualified to conduct maintenance and/or functional test flights and who have completed the prescribed course of instruction for aircraft maintenance test pilots at the U.S. Army Transportation School.

K Polygraph Examiner (formerly Certified Polygraph Examiner)
Identifies persons certified to conduct polygraph examinations.

L Logistics Technician
Identifies persons holding the position of Criminal Investigation Logistics Technician *or* Communications Security (COMSEC) Logistics Technician. Criminal Investigation Logistics Technician is used with MOS 951A (Criminal Investigator) and identifies persons who are qualified to conduct or supervise criminal investigations and crime surveys involving logistical activities and who have completed prescribed courses at the U.S. Army Logistics Management Center. COMSEC Logistics Technician is used with MOS 290A (Telecommunications Technician) and identifies persons who are qualified to supervise operation of communications security (COMSEC) logistics support activities and who have completed 6 months of experience in an assignment dealing with COMSEC logistics skills.

M Latent Fingerprint Examiner
Identifies persons who are qualified as expert latent fingerprint examiners and who have completed the 104-week Latent Fingerprint Examiner course at the U.S. Army Criminal Investigation Laboratory.

N Photographer (formerly Nuclear Power Plant Superintendent—see SQI "5")
Identifies persons holding the position of Forensic Photographer (formerly Investigative Photographer) *or* Intelligence Photographer. Forensic Photographer is used with MOS 951A (Criminal Investigator) and identifies persons who have completed the 104-week Forensic Photographer course at the U.S. Army Criminal Investigation Laboratory. Intelligence Photographer is used with MOS 100B (Utility/Observation Helicopter Pilot), MOS 971A (Counterintelligence Technician), and MOS 972A (Area Intelligence Technician) and identifies persons who have completed the Intelligence Photography course at the U.S. Army Intelligence Agency.

P Questioned Document Examiner
Identifies persons qualified as expert documents examiners.

Q Standardization Instructor Pilot
See SQI "C."

R Forensic Chemist (formerly Aircraft Repair Technician—see SQI "G")
Identifies persons who have completed the 27-week Forensic Chemist course at the U.S. Army Criminal Investigation Laboratory.

S Firearms and Toolmark Examiner (formerly Aerial Scout—see SQI "H")
Identifies persons who have completed the 104-week Firearms and Toolmark Examiner course at the U.S. Army Criminal Investigation Laboratory.

T Transition
Identifies persons who begin either formal schooling or on-the-job training for cross-training into an existing MOS and/or qualification training for new weapons or equipment.

U General Staff Administrative Technician (formerly Maintenance Test Pilot—see SQI "J")
Identifies persons qualified to supervise the office clerical staff of a lieutenant general and higher.

V Support Repair Technician
Identifies persons holding the position of Depot Support/General Support (DS/GS) Repair Technician *or* Communications Security (COMSEC) Equipment Repair Technician. DS/GS Repair Technician is used with any non-aviation MOS to identify persons who are qualified to conduct or supervise maintenance activities. COMSEC Equipment Repair Technician is used with MOS 290A (Telecommunications Technician) and identifies persons who are qualified to supervise maintenance of communications security equipment.

W ADP Operations Technician
Identifies persons who are qualified to supervise operation of automatic data processing (ADP) machines and ancillary equipment and who have completed the ADP Officers course at the U.S. Army Institute of Administration or have equivalent occupational and educational experience.

X ADP Programmer/Systems Analysis Technician
Identifies persons qualified to perform automatic data processing (ADP) programming and conduct systems analyses.

Y Telecommunications Systems Analyst (formerly Air Traffic Control Technician—see SQI "A")
Identifies persons who are qualified to supervise or perform analysis of computer-driven telecommunications systems and who have completed the advanced Automatic Data Processing Systems Analysis course or have equivalent training and experience.

Z Research, Development, Test, and Evaluation Technician
Identifies persons qualified in design, development, test, or evaluation of military materiel, doctrine, methods, systems, or organizations.

Appendix F

Warrant Officer Additional Skill Identifiers

An Additional Skill Identifier is used with a warrant officer MOS to identify and define specialized skills or equipment. It consists of a number and a letter, and occupies the sixth and seventh positions in an MOS designation. The award of an ASI requires two or more weeks of formal schooling or equivalent work experience.

Each Additional Skill Identifier listed below is accompanied by a title and a brief description.

1A OH-13 Pilot
Qualified as OH-13 pilot.

1B OH-23 Pilot
Qualified as OH-23 pilot.

1C OH-6 Pilot
Qualified as OH-6 pilot.

1D OH-58 Pilot (Scout Configuration)
Qualified as OH-58 pilot.

1E UH-1 Pilot
Qualified as UH-1 pilot.

1F CH-34 Pilot
Qualified as CH-34 pilot.

1G CH-47 Pilot
Qualified as CH-47 pilot.

1H CH-54 Pilot
Qualified as CH-54 pilot.

1J AH-1G Pilot
Qualified as AH-1G pilot.

1K VH-3A Pilot
Qualified as VH-3A pilot.

1L CH-37 Pilot
Qualified as CH-37 pilot.

1M AH-1Q/AH-1S Pilot (formerly AH-1Q (Cobra TOW))
Qualified as AH-1Q/AH-1S pilot.

1N UH-60 Pilot
Qualified as UH-60 pilot.

1P OH-58 Pilot
Qualified as OH-58 pilot.

1U EH-1 Pilot
Qualified as EH-1 pilot.

1Y Non-Standard Helicopter Pilot
Qualified as non-standard helicopter pilot.

1Z M-22 Gunner
Knowledge of the M-22 armament subsystem and the tactical employment of UH-1 helicopters equipped with the M-22 aerial gunnery system.

2A O-1; TO-1 Pilot
Qualified as O-1, TO-1 pilot.

2B T-41 Pilot
Qualified as T-41 pilot.

2C U-1 Pilot
Qualified as U-1 pilot.

2D U-6 Pilot
Qualified as U-6 pilot.

2E U-8 Pilot
Qualified as U-8 pilot.

2F T-42 Pilot
Qualified as T-42 pilot.

2G U-9 Pilot
Qualified as U-9 pilot.

2H U-10 Pilot
Qualified as U-10 pilot.

2J U-21 Pilot
Qualified as U-21 pilot.

2K OV-1; RV-1 Pilot (formerly OV-1)
Qualified as OV-1, RV-1 pilot.

2L P2V Pilot
Qualified as P2V pilot.

2M C-45 Pilot
Qualified as C-45 pilot.

2N C-47 Pilot
Qualified as C-47 pilot.

2P C-12 Pilot
Qualified as C-12 pilot.

2Q CV-2 Pilot
Qualified as CV-2 pilot.

2R RU-21 Pilot
Qualified as RU-21 pilot.

2S UV-18 Pilot
Qualified as UV-18 pilot.

2Z Non-Standard Fixed-Wing Aircraft Pilot
Qualified as non-standard fixed-wing aircraft pilot.

3A Avionics and Navigation Equipment Repair Technician
Repair of avionics and navigation equipment.

3B Fixed C-E Equipment Repair Technician
Repair of fixed communications electronic equipment.

3C Tactical C-E Equipment Repair Technician
Repair of tactical communications electronic equipment.

3D Radar Equipment Repair Technician
Repair of radars and ancillary equipment.

3E Satellite Communications System Repair Technician
Repair of satellite communications terminal equipment.

3F Transmission Systems Repair Technician
Repair of communications transmission equipment and systems.

3K IBM 360/65
Repair of the IBM 360/65 data processing equipment.

3L IBM 360/30
Repair of the IBM 360/30 data processing equipment.

3M IBM 360/40
Repair of the IBM 360/40 data processing equipment.

3N Army Autodin Systems
Repair of Army autodin systems equipment.

3P AN/TSQ-73
Repair of the AN/TSQ-73 equipment.

3Q AN/TSQ-51
Repair of the AN/TSQ-51 equipment.

3R AN/TSQ-38
Repair of the AN/TSQ-38 equipment.

3S TACFIRE Technician LITTON L350
Maintenance of tactical ADP equipment and peripheral devices within the division artillery or field artillery brigade.

3X Cryptanalytic Technician
See ASI "9B."

5A Missile System Technician, Basic Hawk
Knowledge of the basic Hawk missile system.

5B Basic Product Improvement Program (PIP) (PIP-1)

Completion of Phase I of the PIP training.

5C Advanced Product Improvement Program (Phase II) (PIP-II)

Completion of Phase II of the PIP training.

5J Technical Escort

Qualified as a technical escort.

5K Critical Nuclear Surety

Qualified to hold critical nuclear surety positions.

5L Controlled Nuclear Surety

Qualified to hold controlled nuclear surety positions.

5V Salvage Diver

Qualified as marine divers.

5Z Missile System Technician, Sergeant (formerly Field Artillery Missile System, Sergeant)

Knowledge of the Sergeant missile system.

6A Defense Sensor Interpretation and Application Training Program (DSIATP)

See ASI "9A."

7A Military Pay Technician

Qualified to perform duties involving military pay.

7B Court Reporter

Qualified as court reporter.

7C RCA 301, 501

Operation or repair of RCA 301, 501 equipment.

7D RCA 3301—Spectra 70

Operation or repair of RCA 3301—Spectra 70 equipment.

7E IBM 7000 Series

Operation or repair of IBM 7000 series equipment.

7F IBM 360

Operation or repair of IBM 360 equipment.

7G GE 600

Operation or repair of GE 600 equipment.

7H Burroughs 3500

Operation or repair of Burroughs 3500 equipment.

7J IBM 1401

Repair of IBM 1401 equipment.

7K UNIVAC 1004, 1005

Operation or repair of UNIVAC 1004, 1005 equipment.

7L NCR 500

Operation or repair of NCR 500 equipment.

7M IBM 1410

Operation or repair of IBM 1410 equipment.

7N IBM 1401, 1410, 1440, 1460, 1620

Operation or repair of IBM 1401, 1410, 1440, 1460, 1620 equipment.

7P GE 200 Series

Operation of GE 200 series equipment.

7Q FORTRAN, 2d Generation

Use of Formula Translation (FORTRAN) 2d generation machine language in development of computer programs.

7R COBOL, 2d Generation

Use of Common Business Oriented Language (COBOL) 2d generation machine language in development of computer programs.

7S SAAL

Use of SAAL machine language in the development of computer programs.

7T FORTRAN, 3d Generation

Use of Formula Translation (FORTRAN) 3d generation machine language in development of computer programs.

7U Assembly Language, 2d Generation

Use of Assembly Language 2d generation machine language in development of computer programs.

7V COBOL, 3d Generation

Use of Common Business Oriented Language (COBOL) 3d generation machine language in development of computer programs.

7W Assembly Language, 3d Generation

Use of Assembly Language 3d generation machine language in development of computer programs.

7X Manpower/Force Manager

Knowledge of military and civilian manpower management policies including planning, programming, development, and evaluation of organizational structure, determination of requirements, allocation of resources, position classification, and familiarity with automated systems which support these functions.

7Y Executive Club Manager

Qualified as executive club manager.

7Z SHAL-A Computer Language

Use of SHAL-A machine language in development of computer programs.

9A Defense Sensor Interpretation and Application Training Program (DSIATP) (formerly ASI "6A")

Qualified in the Defense Sensor Interpretation and Application Training Program.

9B Cryptanalytic Technician (formerly ASI "3X")

Qualified to decipher encrypted intercepted communications.

9K Defense Against Methods of Entry (DAME) (formerly SQI "H")

Qualified to supervise personnel engaged in activities to defend against surreptitious entry.

9L Defense Against Sound Equipment (DASE) Technician (formerly SQI "J")

Qualified to supervise personnel engaged in activities to defend against surreptitious use of sound detection equipment.

9M Technical Intelligence

Qualified in the identification, analysis, and evaluation of technological developments or in the operation, employment, or maintenance of enemy or potential enemy systems or materiel.

9N Aerial E/W Systems

Knowledge of sophisticated electronic systems, special electronic mission aircraft.

Appendix G

Conversion of Army Enlisted Military Occupational Specialties to Department of Defense Enlisted Occupational Codes

This appendix is designed to aid the user in determining the Army formal course number when only the MOS code is known.

The number that the Army assigns to a formal course for enlisted personnel often consists of a three-digit Department of Defense (DoD) occupational code followed by the five-digit code for the MOS and skill level associated with the course, e.g., 300-91C10. In order to use the Course Number Index to locate a specific course exhibit ID number, the user must know the entire official Army course number. However, on some soldiers' records the entire course number is not given; instead, the military record may list the course number as only the MOS and skill level, without the DoD code.

For example, the Army course number for the course that trains persons for MOS 91C (Clinical Specialist) is 300-91C10. When a soldier's record incompletely lists the course number as 91C10, the user can refer to MOS 91C in this appendix to find the DoD occupational code, 300. The user can then turn to 300-91C10 in the Course Number Index to find the ID number of the course exhibit, which in this example is AR-0709-0009.

MOS	DOD CODE
00B	433
00C	830
00E	501
00F	012
00G	600
00H	801
00J	800
00U	762
00Z	521
01B	440
01C	440
01D	440
01E	440
01F	440
01G	440
01H	440
01K	500
01L	541
02B	450
02C	450
02D	450
02E	450
02F	450
02G	450
02H	450
02J	450
02K	450
02L	450
02M	450
02N	450
02P	450
02Q	450
02R	450
02S	450
02T	450
02Z	450
03B	562
03C	562
03D	562
03Z	562
04B	241
04C	241
05B	201
05C	201
05D	231
05E	201
05F	201
05G	231
05H	231
05K	231
11B	010
11C	010
11D	250
11E	020
11F	250
11G	010
11H	010
12A	030
12B	030
12C	030
12D	030
12E	431
12F	030
12Z	030
13A	041
13B	041
13E	250
13Z	041
15B	043
15D	043
15E	043
15F	042
15J	250
15Z	043
16B	043
16C	043
16D	043
16E	043
16F	043
16H	250
16J	221
16K	221
16P	043
16R	043
16Z	043
17A	221
17B	221
17C	412
17D	412
17E	030
17K	221
17L	221
17Z	221
21G	121
21L	121
21M	121

MOS	DOD CODE
21R	121
21S	121
21T	121
21U	121
22G	121
22K	121
22L	121
22M	121
22N	121
23N	104
23Q	121
23S	104
23T	104
23U	104
23V	121
23W	104
24B	104
24C	121
24D	121
24E	121
24F	121
24G	121
24H	104
24J	104
24K	104
24L	121
24M	121
24N	121
24P	104
24Q	121
24U	121
24V	121
25D	150
25G	150
25H	150
25J	150
25K	150
25L	150
25Z	150
26B	104
26C	104
26D	104
26H	104
26K	104
26L	101
26M	104
26N	104
26P	198
26T	191
26V	101
26W	104
26Y	102
27B	121
27D	121
27E	121
27F	101
27G	121
27H	121
27Z	121
28M	121
31B	101
31D	101
31E	101
31G	101
31J	160
31L	101
31M	202
31N	202
31R	198
31S	160
31T	160
31U	160
31W	101
31Z	580
32A	101
32D	101
32E	101
32F	160
32G	160
32H	101
32Z	101
33B	102
33C	102
33D	102
33F	102
33G	102
33S	102
33Z	102
34B	150
34D	150
34E	150
34F	150
34G	113
34H	150
34J	150
34K	150
34L	150
34M	150
34Z	150
35B	198
35D	198
35E	198
35F	140
35G	198
35H	198
35J	112
35K	102
35L	102
35M	102
35N	102
35P	102
35R	102
35S	198
35T	198
35U	198
36C	621
36D	621
36E	621
36G	622
36H	622
36K	621
41B	670
41C	670
41E	198
41F	198
41G	198
41H	198
41J	670
41K	690
42C	304
42D	331
42E	311
42F	331
43A	760
43E	860
43J	760
43K	760
43L	760
43M	760
44A	700
44B	704
44C	701
44D	701
44E	702
44K	704
44Z	700
45A	640
45B	641
45D	642
45J	646
45K	643
45L	642
45M	646
45N	643
45P	643
45R	643
45Z	640
46A	632
46D	121
46L	631
46N	631

MOS	DOD CODE
51A	710
51B	712
51C	710
51D	710
51E	790
51F	710
51G	491
51H	710
51J	720
51K	720
51L	720
51M	780
51N	720
51P	720
51Q	491
51R	721
52A	721
52B	662
52C	662
52D	662
52E	662
52H	661
52J	661
52K	661
52L	661
52M	661
53B	750
53C	750
54A	030
54B	030
54C	030
54D	690
54E	494
54F	030
55A	645
55B	645
55C	645
55D	431
55G	644
55X	645
55Z	645
57A	850
57C	760
57D	710
57E	840
57F	492
57G	850
57H	822
61A	062
61B	062
61C	652
61D	062
61E	652
61F	704
61Z	062
62B	612
62C	633
62D	730
62E	730
62F	730
62G	730
62H	730
62J	730
62K	730
62L	730
62M	730
62N	730
63A	610
63B	610
63C	611
63F	610
63G	610
63H	610
63J	690
63K	690
63Z	610
64C	811
65A	690
65B	690
65C	662
65D	690
65E	690
65F	662
65G	850
65H	812
65J	812
65K	812
65Z	812
67A	600
67B	600
67C	600
67F	600
67G	600
67H	600
67M	600
67N	600
67P	600
67T	600
67U	600
67V	600
67W	600
67X	600
67Y	600
67Z	600
68A	600
68B	601
68C	601
68D	602
68E	602
68F	602
68G	603
68H	602
71B	510
71C	511
71D	512
71E	511
71F	515
71G	513
71H	500
71L	510
71M	561
71N	514
71P	517
71Q	570
71R	570
71S	243
71T	510
71U	531
72B	580
72C	580
72D	580
72E	580
72F	580
72G	580
72H	580
73C	542
73D	541
73Z	542
74B	531
74C	531
74D	531
74E	531
74F	532
74G	531
74Z	531
75B	500
75C	500
75D	500
75E	500
75Z	500
76A	551
76D	551
76J	551
76L	400
76N	551
76P	551
76Q	551
76R	551
76S	551
76T	551
76U	551
76V	551

MOS	DOD CODE
76W	821
76X	822
76Y	552
76Z	551
81A	413
81B	413
81C	411
81D	411
81E	414
81F	790
82A	412
82B	412
82C	412
82D	412
82E	412
83A	740
83D	740
83E	740
83F	740
83Z	740
84B	400
84C	400
84D	191
84E	400
84F	400
84G	400

MOS	DOD CODE
91A	300
91B	300
91C	300
91D	301
91E	330
91F	302
91G	302
91H	304
91J	303
91K	303
91L	303
91M	311
91N	311
91P	313
91Q	312
91R	321
91S	322
91T	321
91U	300
91V	300
91W	300
91Y	300
91Z	300
92B	311
92C	491
92D	491
93D	191
93E	420
93F	420

MOS	DOD CODE
93H	222
93J	222
93K	222
93L	222
94A	800
94B	800
94C	800
94D	800
94F	800
94Z	800
95B	830
95C	831
95D	832
96B	243
96C	241
96D	242
97B	244
97C	244
97D	244
98B	232
98C	232
98G	231
98J	233
98Z	230

Appendix H

Sample Military Records

DD Form 295 (April 1975) Application for the Evaluation of Educational Experiences During Military Service, page H-2

DD Form 295 (June 1979) Application for the Evaluation of Learning Experiences During Military Service, page H-6

DD Form 214 (November 1955) Report of Transfer or Discharge, page H-10

DD Form 214 (July 1979) Certificate of Release or Discharge from Active Duty, page H-11

Sample Order Related to MOS, page H-12

Sample Course Completion Certificates, pages H-13 and H-14

USAEEC Form 10 Enlisted Evaluation Data Report, page H-15

DA Form 2-1 (January 1973), page H-16

DA Form 20 (January 1965) Enlisted Qualification Record, page H-20

DA Form 2166-5 (July 1975) Enlisted Evaluation Report, page H-24

DA Form 2166-5A (July 1975) Senior Enlisted Evaluation Report, page H-26

Individual Soldier's Report (ISR), page H-28

DA Form 67-7 (January 1973) U.S. Army Officer Evaluation Report, page H-29

DA Form 67-8 (September 1979) U.S. Army Officer Evaluation Report, page H-31

DA Form 67-8-1 (September 1979) Officer Evaluation Report Support Form, page H-33

DA Form 66 (November 1964) Officer Qualification Record, page H-35

DA Form 4037 (April 1978) Officer Record Brief, page H-39

APPLICATION FOR THE EVALUATION OF EDUCATIONAL EXPERIENCES DURING MILITARY SERVICE	DATE
NAME AND ADDRESS OF SCHOOL	**EVALUATION REQUEST FOR**
	NAME OF APPLICANT
	SIGNATURE
ATTENTION:	SSN

Dear Sir:

The person named above has requested that the attached summary of his educational achievements, accomplished while serving in the Armed Forces of the United States, be forwarded to you for review and evaluation. The Armed Forces make no recommendations concerning the awarding of credit for educational experiences during Military Service, as it is recognized that this function is the prerogative of civilian education.

The Commission on Accreditation of Service Experiences of the American Council on Education has published the following documents that may be helpful in your review of the applicant's educational experiences:

a. "Policies of State Departments of Education for the Accreditation of Educational Experiences of Military Personnel and of Results on the Tests of General Educational Development." *(Bulletin No. 5)*

b. "A Guide to the Evaluation of Educational Experiences in the Armed Services."

c. "Opportunities for Educational and Vocational Advancement." *(Bulletin No. 10)*

Since any offical of a school, college, state department of education, or other educational institution can obtain additional information relative to accreditation of Service experiences, you may write directly to the Commission on Educational Credit of the American Council on Education, One Dupont Circle, N. W., Washington, D. C. 20036.

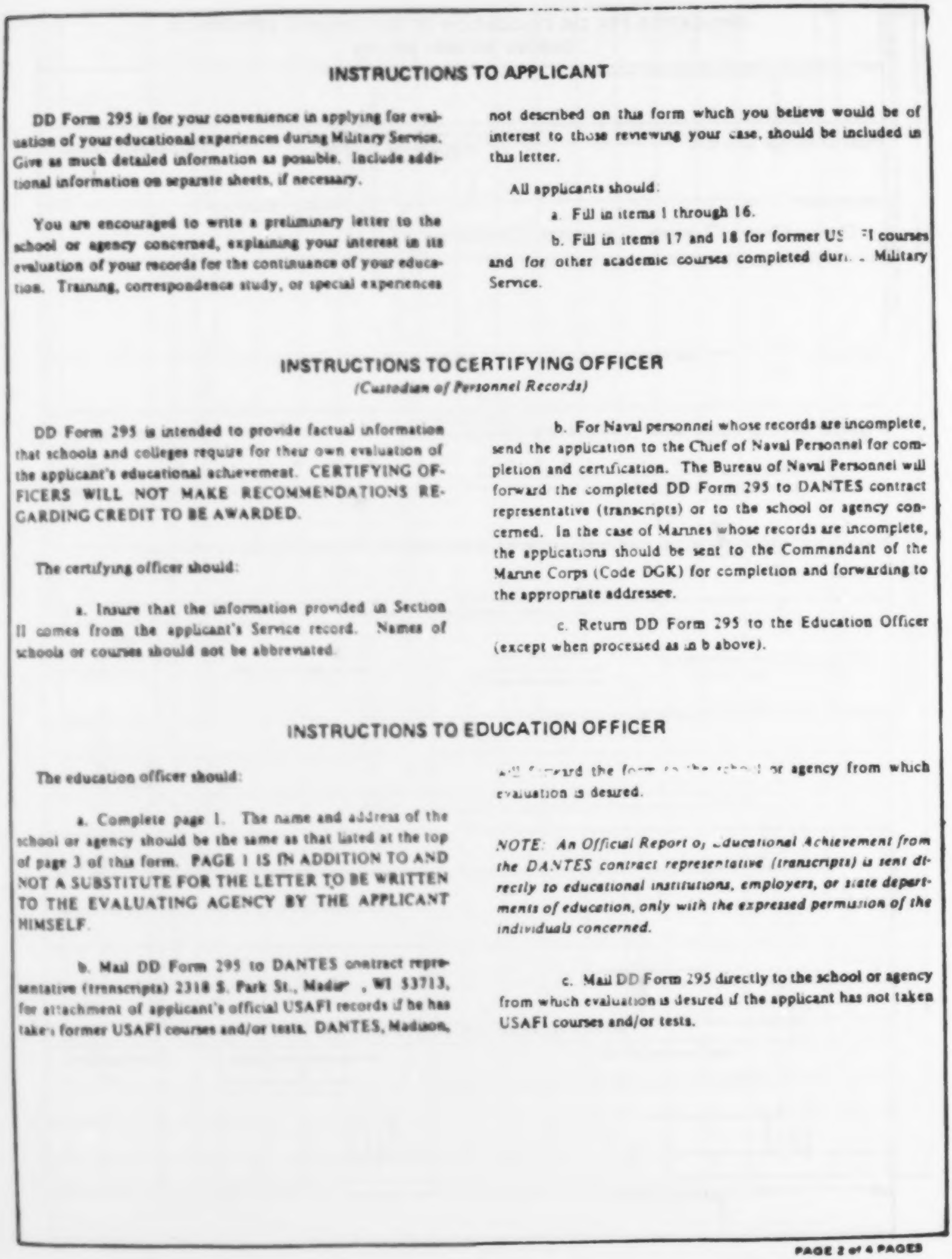
The evaluation of this applicant's educational experiences, as well as any guidance which you may provide him, should be sent directly to the applicant at the address shown on Page 3, Section I, Block 8. Your interest is genuinely appreciated.

Sincerely yours,

EDUCATION OFFICER

PAGE 1 OF 4 PAGE

DD FORM 1 APR 75 295 PREVIOUS EDITION WILL BE USED.



INSTRUCTIONS TO APPLICANT

DD Form 295 is for your convenience in applying for evaluation of your educational experiences during Military Service. Give as much detailed information as possible. Include additional information on separate sheets, if necessary.

You are encouraged to write a preliminary letter to the school or agency concerned, explaining your interest in its evaluation of your records for the continuance of your education. Training, correspondence study, or special experiences not described on this form which you believe would be of interest to those reviewing your case, should be included in this letter.

All applicants should:

a. Fill in items 1 through 16.

b. Fill in items 17 and 18 for former USAFI courses and for other academic courses completed during Military Service.

INSTRUCTIONS TO CERTIFYING OFFICER

(Custodian of Personnel Records)

DD Form 295 is intended to provide factual information that schools and colleges require for their own evaluation of the applicant's educational achievement. CERTIFYING OFFICERS WILL NOT MAKE RECOMMENDATIONS REGARDING CREDIT TO BE AWARDED.

The certifying officer should:

a. Insure that the information provided in Section II comes from the applicant's Service record. Names of schools or courses should not be abbreviated.

b. For Naval personnel whose records are incomplete, send the application to the Chief of Naval Personnel for completion and certification. The Bureau of Naval Personnel will forward the completed DD Form 295 to DANTES contract representative (transcripts) or to the school or agency concerned. In the case of Marines whose records are incomplete, the applications should be sent to the Commandant of the Marine Corps (Code DGK) for completion and forwarding to the appropriate addressee.

c. Return DD Form 295 to the Education Officer (except when processed as in b above).

INSTRUCTIONS TO EDUCATION OFFICER

The education officer should:

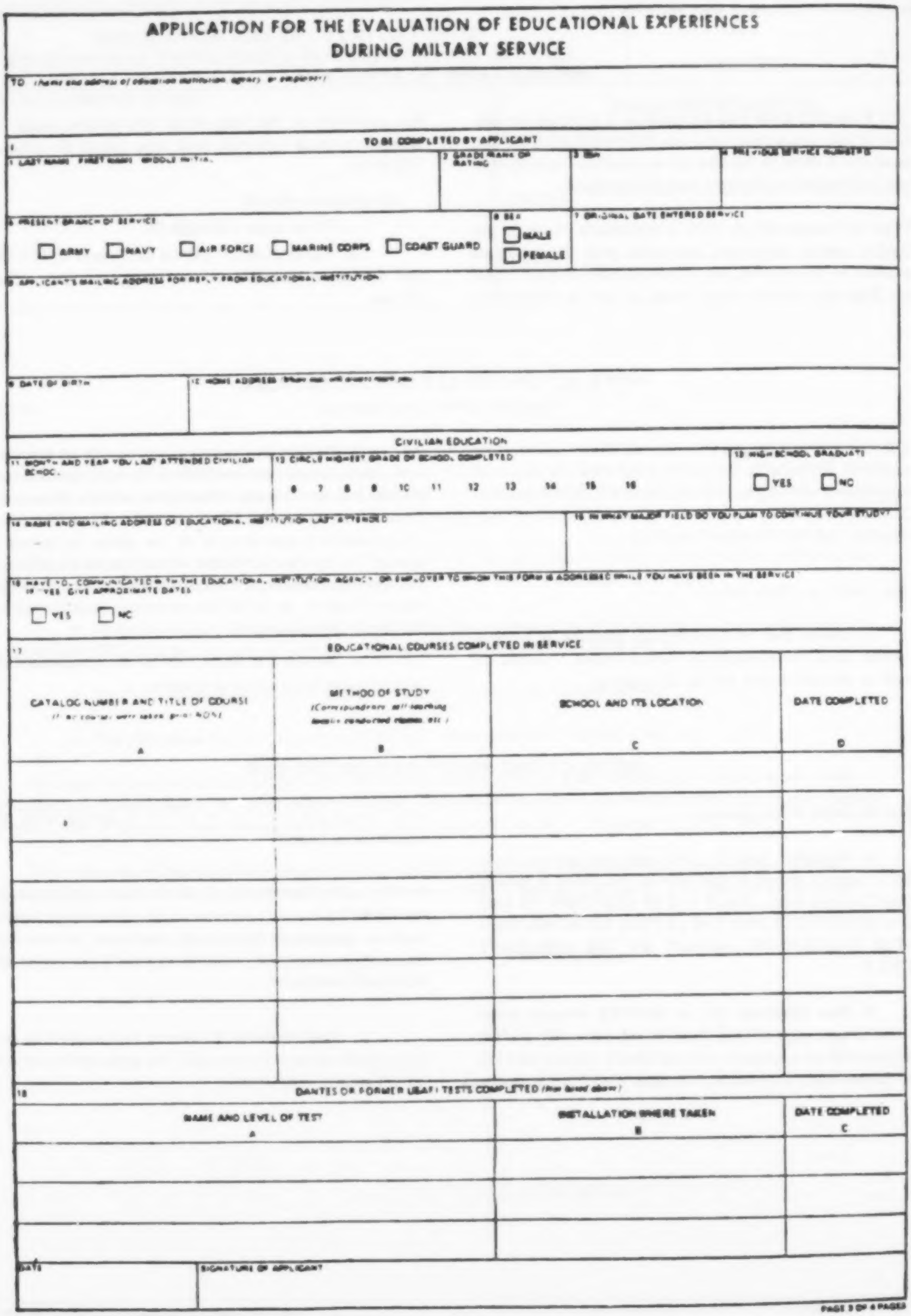
a. Complete page 1. The name and address of the school or agency should be the same as that listed at the top of page 3 of this form. PAGE 1 IS IN ADDITION TO AND NOT A SUBSTITUTE FOR THE LETTER TO BE WRITTEN TO THE EVALUATING AGENCY BY THE APPLICANT HIMSELF.

b. Mail DD Form 295 to DANTES contract representative (transcripts) 2318 S. Park St., Madison, WI 53713, for attachment of applicant's official USAFI records if he has taken former USAFI courses and/or tests. DANTES, Madison, will forward the form to the school or agency from which evaluation is desired.

NOTE: An Official Report of Educational Achievement from the DANTES contract representative (transcripts) is sent directly to educational institutions, employers, or state departments of education, only with the expressed permission of the individuals concerned.

c. Mail DD Form 295 directly to the school or agency from which evaluation is desired if the applicant has not taken USAFI courses and/or tests.

PAGE 2 of 4 PAGES



APPLICATION FOR THE EVALUATION OF EDUCATIONAL EXPERIENCES DURING MILTARY SERVICE

TO (Name and address of education institution, agency, or employer)

TO BE COMPLETED BY APPLICANT

I

1 LAST NAME FIRST NAME MIDDLE INITIAL

2 GRADE/RANK OR RATING

3 SSN

4 PREVIOUS SERVICE NUMBER(S)

5 PRESENT BRANCH OF SERVICE ☐ ARMY ☐ NAVY ☐ AIR FORCE ☐ MARINE CORPS ☐ COAST GUARD

6 SEX ☐ MALE ☐ FEMALE

7 ORIGINAL DATE ENTERED SERVICE

8 APPLICANT'S MAILING ADDRESS FOR REPLY FROM EDUCATIONAL INSTITUTION

9 DATE OF BIRTH

10 HOME ADDRESS [illegible]

CIVILIAN EDUCATION

11 MONTH AND YEAR YOU LAST ATTENDED CIVILIAN SCHOOL

12 CIRCLE HIGHEST GRADE OF SCHOOL COMPLETED 6 7 8 9 10 11 12 13 14 15 16

13 HIGH SCHOOL GRADUATE ☐ YES ☐ NO

14 NAME AND MAILING ADDRESS OF EDUCATIONAL INSTITUTION LAST ATTENDED

15 IN WHAT MAJOR FIELD DO YOU PLAN TO CONTINUE YOUR STUDY?

16 HAVE YOU COMMUNICATED WITH THE EDUCATIONAL INSTITUTION, AGENCY, OR EMPLOYER TO WHOM THIS FORM IS ADDRESSED WHILE YOU HAVE BEEN IN THE SERVICE? IF "YES" GIVE APPROXIMATE DATES

☐ YES ☐ NO

17 EDUCATIONAL COURSES COMPLETED IN SERVICE

CATALOG NUMBER AND TITLE OF COURSE (If no courses were taken, print NONE) A	METHOD OF STUDY (Correspondence, self-teaching, classroom conducted classes, etc.) B	SCHOOL AND ITS LOCATION C	DATE COMPLETED D

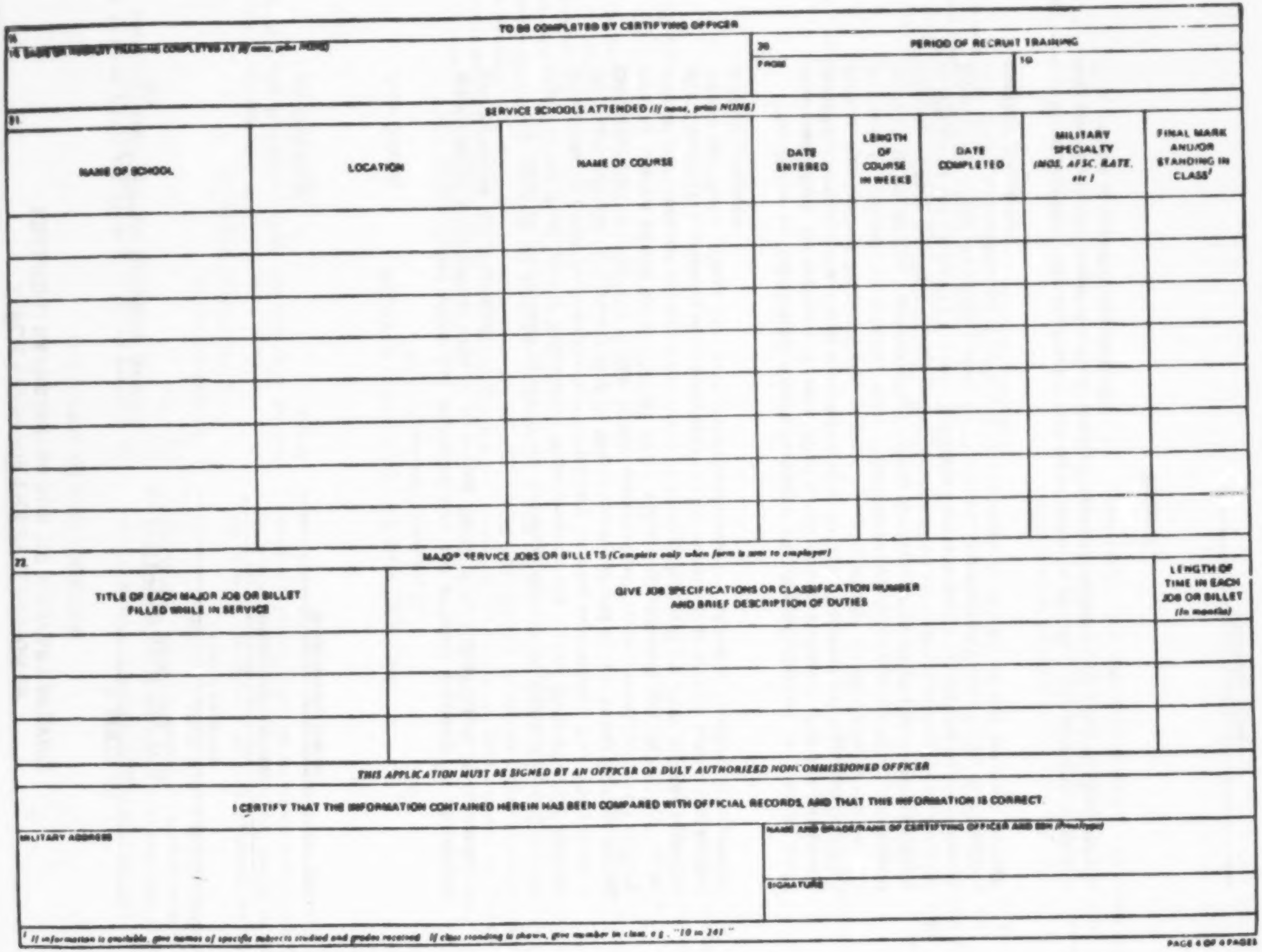
18 DANTES OR FORMER USAFI TESTS COMPLETED (not listed above)

NAME AND LEVEL OF TEST A	INSTALLATION WHERE TAKEN B	DATE COMPLETED C

DATE

SIGNATURE OF APPLICANT

PAGE 3 OF 4 PAGES



TO BE COMPLETED BY CERTIFYING OFFICER

19 BASIC OR RECRUIT TRAINING COMPLETED AT *(If none, print NONE)*	20 PERIOD OF RECRUIT TRAINING	
	FROM	TO

21 SERVICE SCHOOLS ATTENDED *(If none, print NONE)*

NAME OF SCHOOL	LOCATION	NAME OF COURSE	DATE ENTERED	LENGTH OF COURSE IN WEEKS	DATE COMPLETED	MILITARY SPECIALTY *(MOS, AFSC, RATE, etc.)*	FINAL MARK AND/OR STANDING IN CLASS[1]

22 MAJOR SERVICE JOBS OR BILLETS *(Complete only when form is sent to employer)*

TITLE OF EACH MAJOR JOB OR BILLET FILLED WHILE IN SERVICE	GIVE JOB SPECIFICATIONS OR CLASSIFICATION NUMBER AND BRIEF DESCRIPTION OF DUTIES	LENGTH OF TIME IN EACH JOB OR BILLET *(In months)*

THIS APPLICATION MUST BE SIGNED BY AN OFFICER OR DULY AUTHORIZED NONCOMMISSIONED OFFICER

I CERTIFY THAT THE INFORMATION CONTAINED HEREIN HAS BEEN COMPARED WITH OFFICIAL RECORDS, AND THAT THIS INFORMATION IS CORRECT

MILITARY ADDRESS	NAME AND GRADE/RANK OF CERTIFYING OFFICER AND SSN *(Print/type)*
	SIGNATURE

[1] *If information is available, give names of specific subjects studied and grades received. If class standing is shown, give number in class, e.g., "10 in 241."*

PAGE 4 OF 4 PAGES

APPLICATION FOR THE EVALUATION OF LEARNING EXPERIENCES DURING MILITARY SERVICE

9 APRIL 80
(Date)

(Name/Address of Evaluating Agency)
TO:

EVALUATION REQUEST FOR:

(Name of Applicant)

(Signature of Applicant)

ATTENTION:

(Social Security Number)

Dear Official:

The person named above has requested that the attached summary of educational achievements, accomplished while in the Armed Forces of the United States, be forwarded to you for review and evaluation.

The Office on Educational Credit of the American Council on Education publishes the *Guide to the Evaluation of Educational Experiences in the Armed Services* which includes postsecondary credit recommendations for military learning experiences. The 1954 edition of the *Guide* contains recommendations for formal courses offered by the Armed Services during the period 1941 to 1954. The current edition contains credit recommendations for (1) military training courses offered after 1954; (2) Army military occupational specialties (MOS's) for enlisted personnel and warrant officers; and (3) Navy ratings held by Navy enlisted personnel after June 1971. In addition to recommendations for semester hour credits, some Army enlisted MOS's and Navy ratings also have recommendations for advanced standing in apprentice training programs.

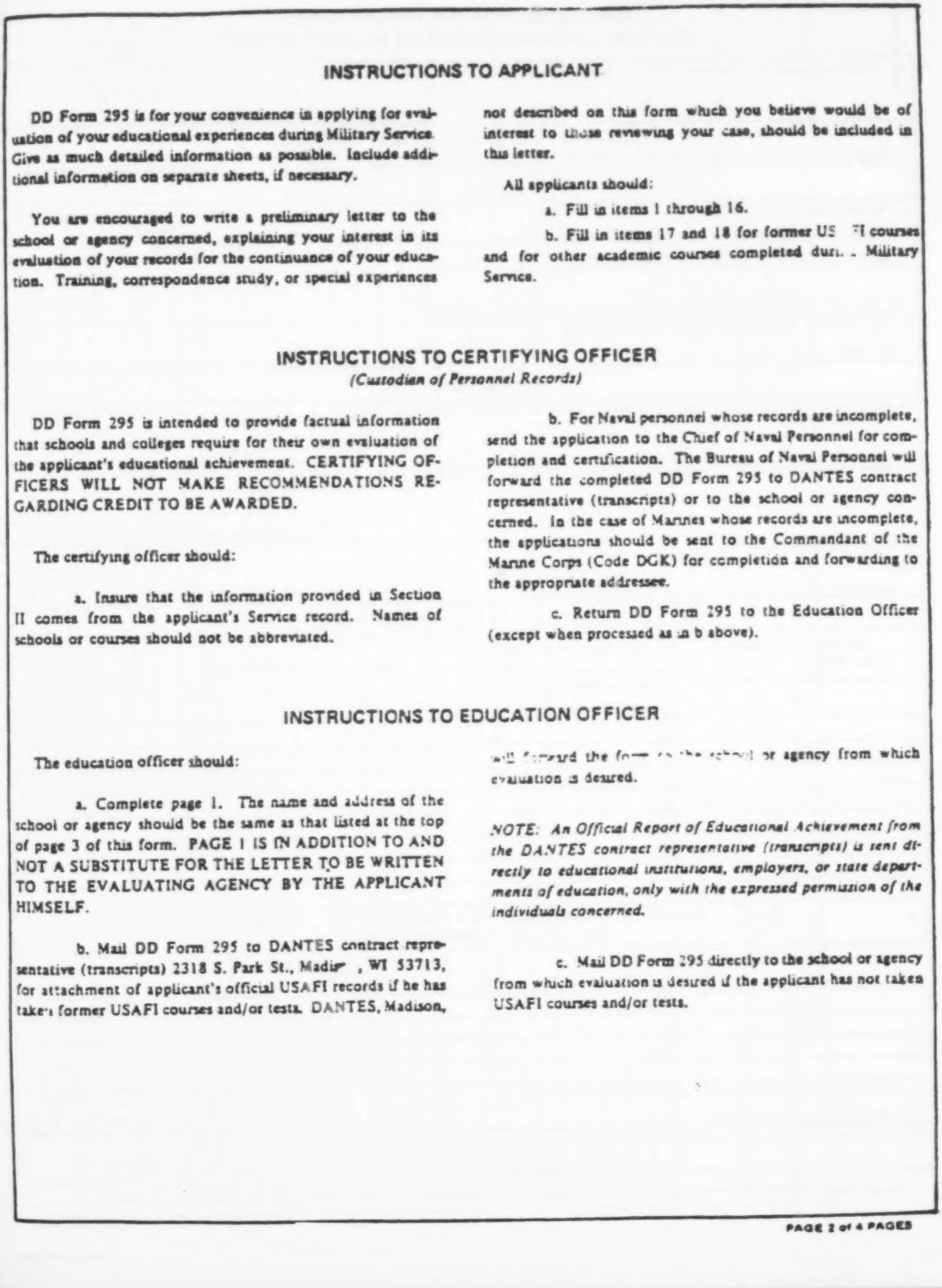
The Office on Educational Credit maintains an advisory service to provide credit recommendations for courses and tests, MOS's, and ratings evaluated after the publication date of the current *Guide*. Credit recommendations for USAFI courses and tests and DANTES Subject Standardized Tests will also be provided upon request. Credit recommendations are provided to officials of schools, state departments of education or other educational institutions, employers, apprenticeship training directors, labor union and trade association officials, military education officers and applicants. *Credit recommendations are not provided to officials at the applicant's request.* Authorized persons may write directly to the Office on Educational Credit, American Council on Education, One Dupont Circle, N.W., Washington, D.C. 20036. Announcements of newly evaluated courses, MOS's and ratings are made through the *OEC Newsletter*.

The evaluation of this applicant's learning experiences, as well as any guidance which you may provide, should be sent directly to the applicant at the address shown in block 8 on page 3. Your interest is genuinely appreciated.

Sincerely,

(Education Officer)

DD FORM JUNE 1979 295 Edition of 1 Apr 75 is obsolete. *Page 1 of 4 pages*



INSTRUCTIONS TO APPLICANT

DD Form 295 is for your convenience in applying for evaluation of your educational experiences during Military Service. Give as much detailed information as possible. Include additional information on separate sheets, if necessary.

You are encouraged to write a preliminary letter to the school or agency concerned, explaining your interest in its evaluation of your records for the continuance of your education. Training, correspondence study, or special experiences not described on this form which you believe would be of interest to those reviewing your case, should be included in this letter.

All applicants should:

a. Fill in items 1 through 16.

b. Fill in items 17 and 18 for former USAFI courses and for other academic courses completed during Military Service.

INSTRUCTIONS TO CERTIFYING OFFICER

(Custodian of Personnel Records)

DD Form 295 is intended to provide factual information that schools and colleges require for their own evaluation of the applicant's educational achievement. CERTIFYING OFFICERS WILL NOT MAKE RECOMMENDATIONS REGARDING CREDIT TO BE AWARDED.

The certifying officer should:

a. Insure that the information provided in Section II comes from the applicant's Service record. Names of schools or courses should not be abbreviated.

b. For Naval personnel whose records are incomplete, send the application to the Chief of Naval Personnel for completion and certification. The Bureau of Naval Personnel will forward the completed DD Form 295 to DANTES contract representative (transcripts) or to the school or agency concerned. In the case of Marines whose records are incomplete, the applications should be sent to the Commandant of the Marine Corps (Code DGK) for completion and forwarding to the appropriate addressee.

c. Return DD Form 295 to the Education Officer (except when processed as in b above).

INSTRUCTIONS TO EDUCATION OFFICER

The education officer should:

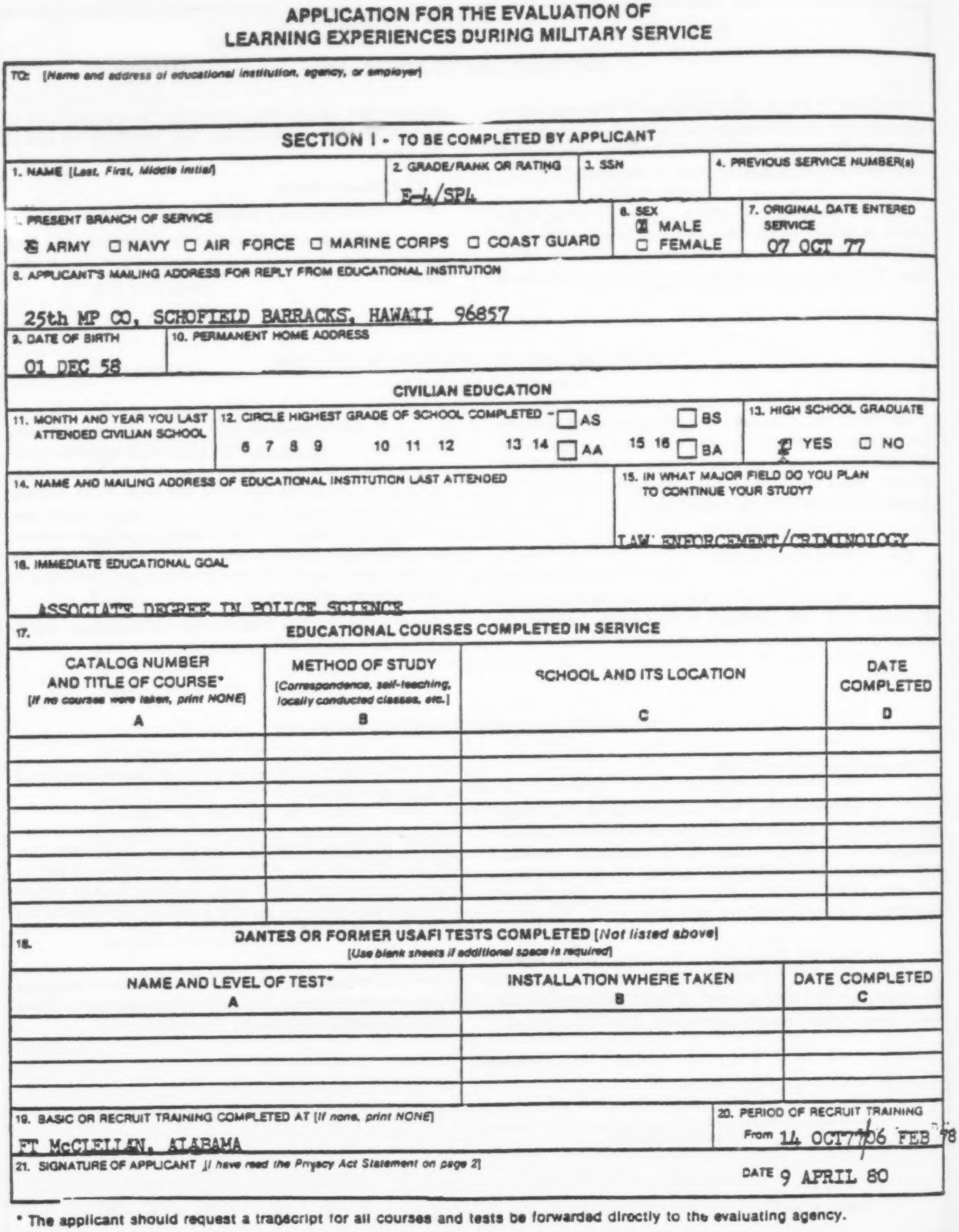
a. Complete page 1. The name and address of the school or agency should be the same as that listed at the top of page 3 of this form. PAGE 1 IS IN ADDITION TO AND NOT A SUBSTITUTE FOR THE LETTER TO BE WRITTEN TO THE EVALUATING AGENCY BY THE APPLICANT HIMSELF.

b. Mail DD Form 295 to DANTES contract representative (transcripts) 2318 S. Park St., Madison, WI 53713, for attachment of applicant's official USAFI records if he has taken former USAFI courses and/or tests. DANTES, Madison, will forward the form to the school or agency from which evaluation is desired.

NOTE: An Official Report of Educational Achievement from the DANTES contract representative (transcripts) is sent directly to educational institutions, employers, or state departments of education, only with the expressed permission of the individuals concerned.

c. Mail DD Form 295 directly to the school or agency from which evaluation is desired if the applicant has not taken USAFI courses and/or tests.

PAGE 2 of 4 PAGES



APPLICATION FOR THE EVALUATION OF LEARNING EXPERIENCES DURING MILITARY SERVICE

TO: *(Name and address of educational institution, agency, or employer)*

SECTION I - TO BE COMPLETED BY APPLICANT

1. NAME *(Last, First, Middle Initial)*
2. GRADE/RANK OR RATING E-4/SP4
3. SSN
4. PREVIOUS SERVICE NUMBER(s)
5. PRESENT BRANCH OF SERVICE ☒ ARMY ☐ NAVY ☐ AIR FORCE ☐ MARINE CORPS ☐ COAST GUARD
6. SEX ☒ MALE ☐ FEMALE
7. ORIGINAL DATE ENTERED SERVICE 07 OCT 77
8. APPLICANT'S MAILING ADDRESS FOR REPLY FROM EDUCATIONAL INSTITUTION 25th MP CO, SCHOFIELD BARRACKS, HAWAII 96857
9. DATE OF BIRTH 01 DEC 58
10. PERMANENT HOME ADDRESS

CIVILIAN EDUCATION

11. MONTH AND YEAR YOU LAST ATTENDED CIVILIAN SCHOOL
12. CIRCLE HIGHEST GRADE OF SCHOOL COMPLETED - 6 7 8 9 10 11 12 13 14 ☐ AS ☐ AA 15 16 ☐ BS ☐ BA
13. HIGH SCHOOL GRADUATE ☒ YES ☐ NO
14. NAME AND MAILING ADDRESS OF EDUCATIONAL INSTITUTION LAST ATTENDED
15. IN WHAT MAJOR FIELD DO YOU PLAN TO CONTINUE YOUR STUDY? LAW ENFORCEMENT/CRIMINOLOGY
16. IMMEDIATE EDUCATIONAL GOAL ASSOCIATE DEGREE IN POLICE SCIENCE

17. EDUCATIONAL COURSES COMPLETED IN SERVICE

CATALOG NUMBER AND TITLE OF COURSE* *(If no courses were taken, print NONE)* A	METHOD OF STUDY *(Correspondence, self-teaching, locally conducted classes, etc.)* B	SCHOOL AND ITS LOCATION C	DATE COMPLETED D

18. DANTES OR FORMER USAFI TESTS COMPLETED *(Not listed above)*
(Use blank sheets if additional space is required)

NAME AND LEVEL OF TEST* A	INSTALLATION WHERE TAKEN B	DATE COMPLETED C

19. BASIC OR RECRUIT TRAINING COMPLETED AT *(If none, print NONE)* FT McCLELLAN, ALABAMA
20. PERIOD OF RECRUIT TRAINING From 14 OCT77 / 06 FEB 78
21. SIGNATURE OF APPLICANT *(I have read the Privacy Act Statement on page 2)* DATE 9 APRIL 80

* The applicant should request a transcript for all courses and tests be forwarded directly to the evaluating agency.

Page 3 of 4 pages

SECTION II – TO BE COMPLETED BY CERTIFYING OFFICER

[Read instructions on page 2 before filling out this page]

22. **SERVICE SCHOOLS ATTENDED** [If none, print NONE]

NAME OF SCHOOL [As listed in ACE Guide]	LOCATION	NAME OF COURSE [Include Index 8 in ACE Guide]	DATE ENTERED	LENGTH[1] [In wks]	DATE COMPLETED	MILITARY SPECIALTY [MOS, AFSC, RATE, etc.]	FINAL MARK AND/OR STANDING-IN CLASS[2]
U.S. ARMY MIL. POL.	FT MCCLELLAN, AL	LAW ENF	12 OCT 77	8WKS	15DEC 77	95B10	
NBC SCHOOL SCH BKS	SCHOFIELD BARRACKS	NBC DEFENSE	11FEB80	2 WKS	22FEB 80		

[1] Print SP if course length was self paced.

[2] If information is available, give grade received. If class standing is shown, give number in class, i.e., 10 in 241.

23. **MILITARY OCCUPATIONAL HISTORY**

MILITARY SPEC. CODE [MOS, AFSC, RATE, etc.][3]	MILITARY OCCUPATIONAL TITLE [Do Not Abbreviate]	DATES HELD From [mo/yr]	DATES HELD To [mo/yr]	For Army Enlisted Personnel[4]
95B10	MILITARY POLICEMAN	JAN 78	PRESENT	SQT SCORE: 80 JULY 79

[3] If assigned to a billet outside military rating, give job title and description of duties on separate sheet.

[4] MOS Evaluation Score and Date of evaluation.

THIS APPLICATION MUST BE SIGNED BY AN OFFICER OR A DULY AUTHORIZED NONCOMMISSIONED OFFICER

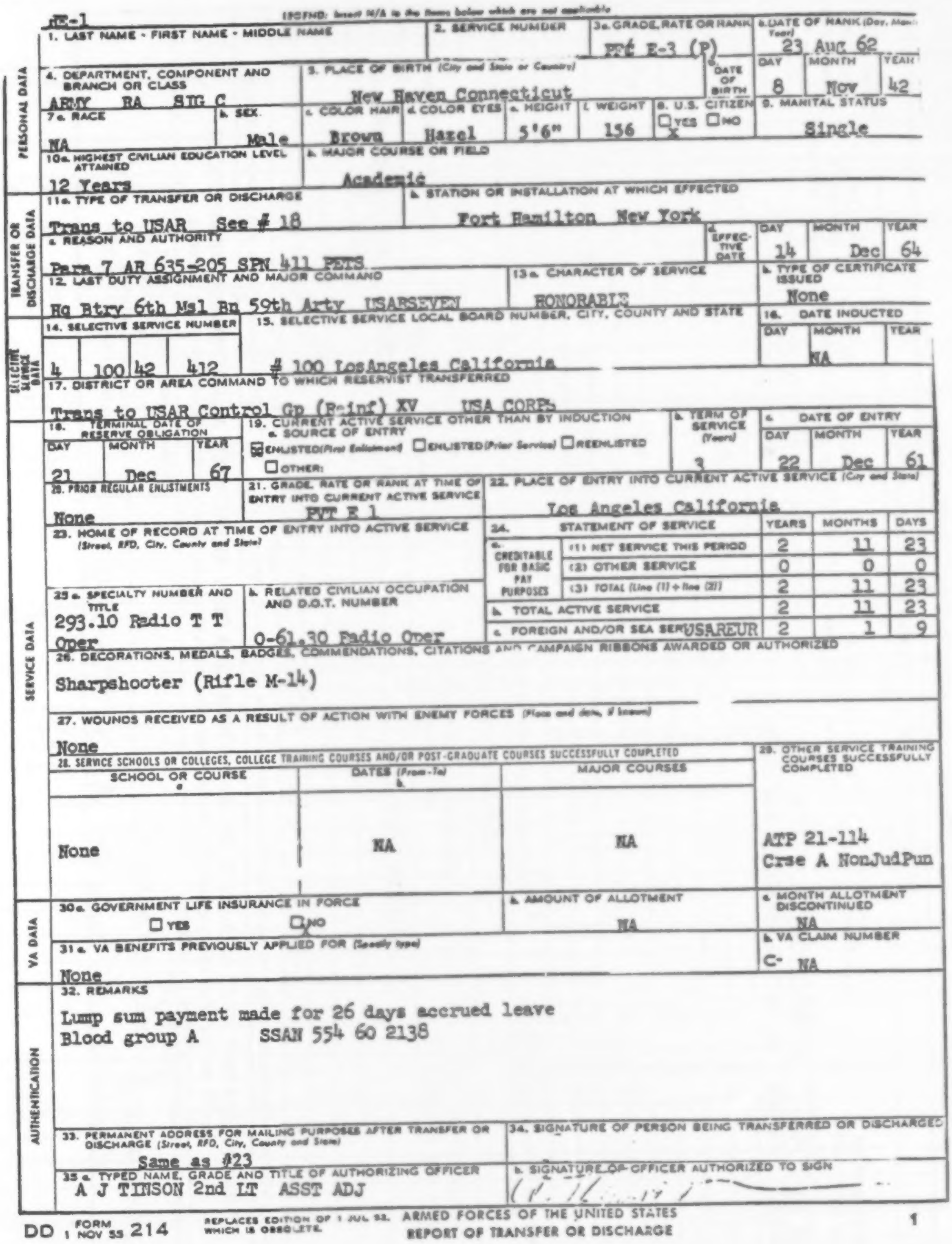
I certify that the information contained herein has been compared with official records, and that this information is correct.

NAME, GRADE/RANK OF CERTIFYING OFFICER (Print or Type)
JOHN D. HUSS
1LT, AGC
Chief Enlisted Records Br.

SIGNATURE OF CERTIFYING OFFICER Bobbie Criddle SSG DATE 14 APR 80

MILITARY ADDRESS (Include Zip Code)
COMMANDER
25th Infantry Division
ATTN: APVG-AGP-RE
Schofield Bks, HI 96857

Page 4 of 4 pages



RE-1

(LEGEND: Insert N/A in the items below which are not applicable)

PERSONAL DATA

1. LAST NAME - FIRST NAME - MIDDLE NAME:
2. SERVICE NUMBER:
3a. GRADE, RATE OR RANK: PFC E-3 (P)
b. DATE OF RANK (Day, Month, Year): 23 Aug 62
4. DEPARTMENT, COMPONENT AND BRANCH OR CLASS: ARMY RA SIG C
5. PLACE OF BIRTH (City and State or Country): New Haven Connecticut
6. DATE OF BIRTH: DAY 8 MONTH Nov YEAR 42
7a. RACE: NA
b. SEX: Male
c. COLOR HAIR: Brown
d. COLOR EYES: Hazel
e. HEIGHT: 5'6"
f. WEIGHT: 156
8. U.S. CITIZEN: ☒ YES ☐ NO
9. MARITAL STATUS: Single
10a. HIGHEST CIVILIAN EDUCATION LEVEL ATTAINED: 12 Years
b. MAJOR COURSE OR FIELD: Academic

TRANSFER OR DISCHARGE DATA

11a. TYPE OF TRANSFER OR DISCHARGE: Trans to USAR See # 18
b. STATION OR INSTALLATION AT WHICH EFFECTED: Fort Hamilton New York
c. REASON AND AUTHORITY: Para 7 AR 635-205 SPN 411 PETS
d. EFFECTIVE DATE: DAY 14 MONTH Dec YEAR 64
12. LAST DUTY ASSIGNMENT AND MAJOR COMMAND: Hq Btry 6th Msl Bn 59th Arty USARSEVEN
13a. CHARACTER OF SERVICE: HONORABLE
b. TYPE OF CERTIFICATE ISSUED: None

SELECTIVE SERVICE DATA

14. SELECTIVE SERVICE NUMBER: 4 100 42 412
15. SELECTIVE SERVICE LOCAL BOARD NUMBER, CITY, COUNTY AND STATE: # 100 LosAngeles California
16. DATE INDUCTED: DAY MONTH YEAR NA

SERVICE DATA

17. DISTRICT OR AREA COMMAND TO WHICH RESERVIST TRANSFERRED: Trans to USAR Control Gp (Reinf) XV USA CORPS
18. TERMINAL DATE OF RESERVE OBLIGATION: DAY 21 MONTH Dec YEAR 67
19. CURRENT ACTIVE SERVICE OTHER THAN BY INDUCTION
a. SOURCE OF ENTRY: ☒ ENLISTED (First Enlistment) ☐ ENLISTED (Prior Service) ☐ REENLISTED ☐ OTHER:
b. TERM OF SERVICE (Years): 3
c. DATE OF ENTRY: DAY 22 MONTH Dec YEAR 61
20. PRIOR REGULAR ENLISTMENTS: None
21. GRADE, RATE OR RANK AT TIME OF ENTRY INTO CURRENT ACTIVE SERVICE: PVT E 1
22. PLACE OF ENTRY INTO CURRENT ACTIVE SERVICE (City and State): Los Angeles California
23. HOME OF RECORD AT TIME OF ENTRY INTO ACTIVE SERVICE (Street, RFD, City, County and State):

24. STATEMENT OF SERVICE		YEARS	MONTHS	DAYS
a. CREDITABLE FOR BASIC PAY PURPOSES	(1) NET SERVICE THIS PERIOD	2	11	23
	(2) OTHER SERVICE	0	0	0
	(3) TOTAL (Line (1) + line (2))	2	11	23
b. TOTAL ACTIVE SERVICE		2	11	23
c. FOREIGN AND/OR SEA SERVICE	USAREUR	2	1	9

25a. SPECIALTY NUMBER AND TITLE: 293.10 Radio T T Oper
b. RELATED CIVILIAN OCCUPATION AND D.O.T. NUMBER: 0-61.30 Radio Oper
26. DECORATIONS, MEDALS, BADGES, COMMENDATIONS, CITATIONS AND CAMPAIGN RIBBONS AWARDED OR AUTHORIZED: Sharpshooter (Rifle M-14)
27. WOUNDS RECEIVED AS A RESULT OF ACTION WITH ENEMY FORCES (Place and date, if known): None

28. SERVICE SCHOOLS OR COLLEGES, COLLEGE TRAINING COURSES AND/OR POST-GRADUATE COURSES SUCCESSFULLY COMPLETED			29. OTHER SERVICE TRAINING COURSES SUCCESSFULLY COMPLETED
SCHOOL OR COURSE a	DATES (From-To) b.	MAJOR COURSES	
None	NA	NA	ATP 21-114 Crse A NonJudPun

VA DATA

30a. GOVERNMENT LIFE INSURANCE IN FORCE: ☐ YES ☒ NO
b. AMOUNT OF ALLOTMENT: NA
c. MONTH ALLOTMENT DISCONTINUED: NA
31a. VA BENEFITS PREVIOUSLY APPLIED FOR (Specify type): None
b. VA CLAIM NUMBER: C- NA

AUTHENTICATION

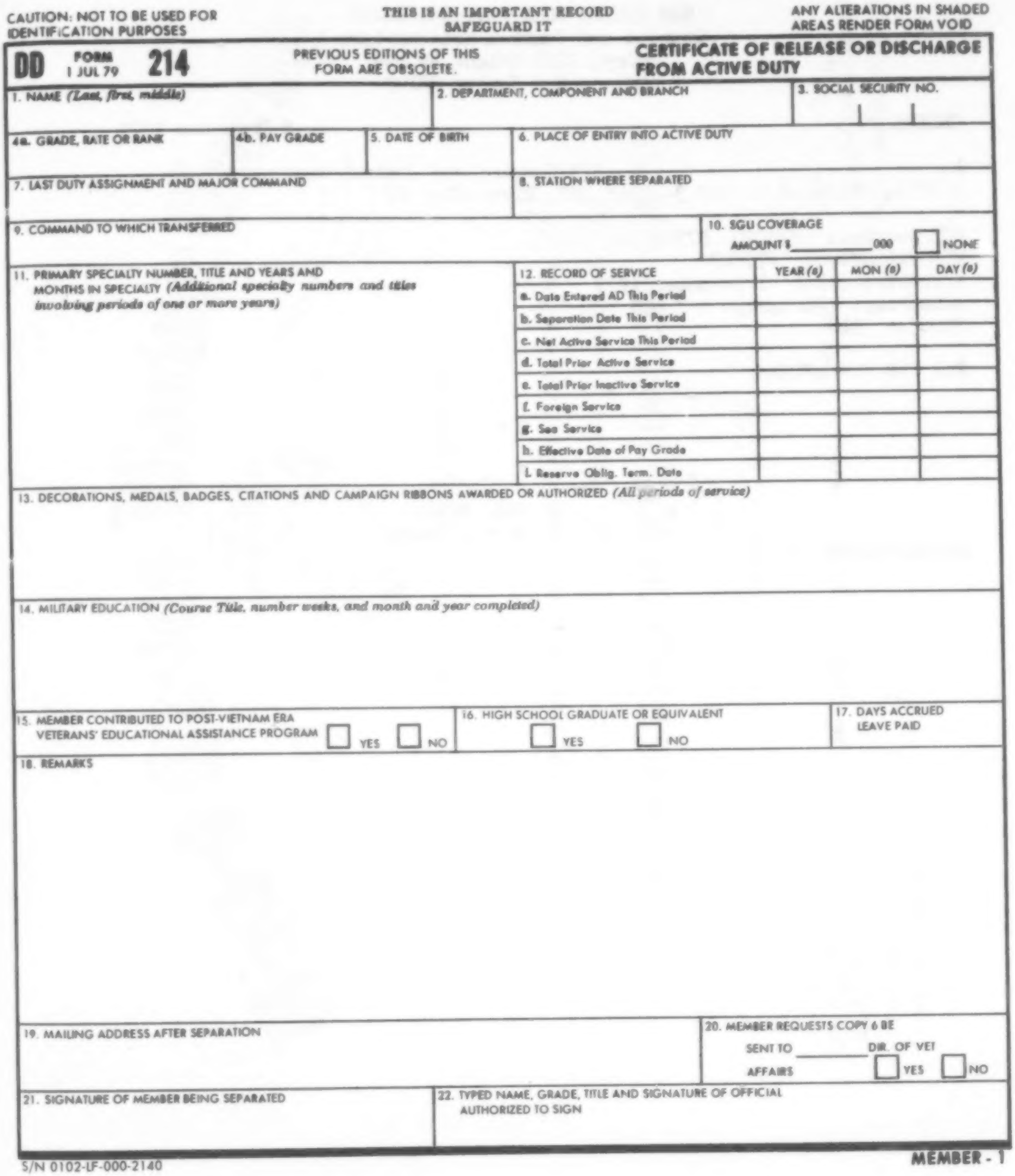
32. REMARKS:
Lump sum payment made for 26 days accrued leave
Blood group A SSAN 554 60 2138

33. PERMANENT ADDRESS FOR MAILING PURPOSES AFTER TRANSFER OR DISCHARGE (Street, RFD, City, County and State): Same as #23
34. SIGNATURE OF PERSON BEING TRANSFERRED OR DISCHARGED:
35a. TYPED NAME, GRADE AND TITLE OF AUTHORIZING OFFICER: A J TINSON 2nd LT ASST ADJ
b. SIGNATURE OF OFFICER AUTHORIZED TO SIGN:

DD FORM 1 NOV 55 214 REPLACES EDITION OF 1 JUL 53, WHICH IS OBSOLETE.

ARMED FORCES OF THE UNITED STATES
REPORT OF TRANSFER OR DISCHARGE

1



CAUTION: NOT TO BE USED FOR IDENTIFICATION PURPOSES

THIS IS AN IMPORTANT RECORD
SAFEGUARD IT

ANY ALTERATIONS IN SHADED AREAS RENDER FORM VOID

DD FORM 1 JUL 79 214

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

CERTIFICATE OF RELEASE OR DISCHARGE FROM ACTIVE DUTY

1. NAME *(Last, first, middle)*

2. DEPARTMENT, COMPONENT AND BRANCH

3. SOCIAL SECURITY NO.

4a. GRADE, RATE OR RANK

4b. PAY GRADE

5. DATE OF BIRTH

6. PLACE OF ENTRY INTO ACTIVE DUTY

7. LAST DUTY ASSIGNMENT AND MAJOR COMMAND

8. STATION WHERE SEPARATED

9. COMMAND TO WHICH TRANSFERRED

10. SGLI COVERAGE AMOUNT $________.000 ☐ NONE

11. PRIMARY SPECIALTY NUMBER, TITLE AND YEARS AND MONTHS IN SPECIALTY *(Additional specialty numbers and titles involving periods of one or more years)*

12. RECORD OF SERVICE	YEAR *(s)*	MON *(s)*	DAY *(s)*
a. Date Entered AD This Period			
b. Separation Date This Period			
c. Net Active Service This Period			
d. Total Prior Active Service			
e. Total Prior Inactive Service			
f. Foreign Service			
g. Sea Service			
h. Effective Date of Pay Grade			
i. Reserve Oblig. Term. Date			

13. DECORATIONS, MEDALS, BADGES, CITATIONS AND CAMPAIGN RIBBONS AWARDED OR AUTHORIZED *(All periods of service)*

14. MILITARY EDUCATION *(Course Title, number weeks, and month and year completed)*

15. MEMBER CONTRIBUTED TO POST-VIETNAM ERA VETERANS' EDUCATIONAL ASSISTANCE PROGRAM ☐ YES ☐ NO

16. HIGH SCHOOL GRADUATE OR EQUIVALENT ☐ YES ☐ NO

17. DAYS ACCRUED LEAVE PAID

18. REMARKS

19. MAILING ADDRESS AFTER SEPARATION

20. MEMBER REQUESTS COPY 6 BE SENT TO ________ DIR. OF VET AFFAIRS ☐ YES ☐ NO

21. SIGNATURE OF MEMBER BEING SEPARATED

22. TYPED NAME, GRADE, TITLE AND SIGNATURE OF OFFICIAL AUTHORIZED TO SIGN

S/N 0102-LF-000-2140

MEMBER - 1

NEW JERSEY ARMY NATIONAL GUARD
Command and Control Headquarters
Armory, 1056 Wright Avenue
Camden, New Jersey 08103

ORDERS 29-3 8 December 1979

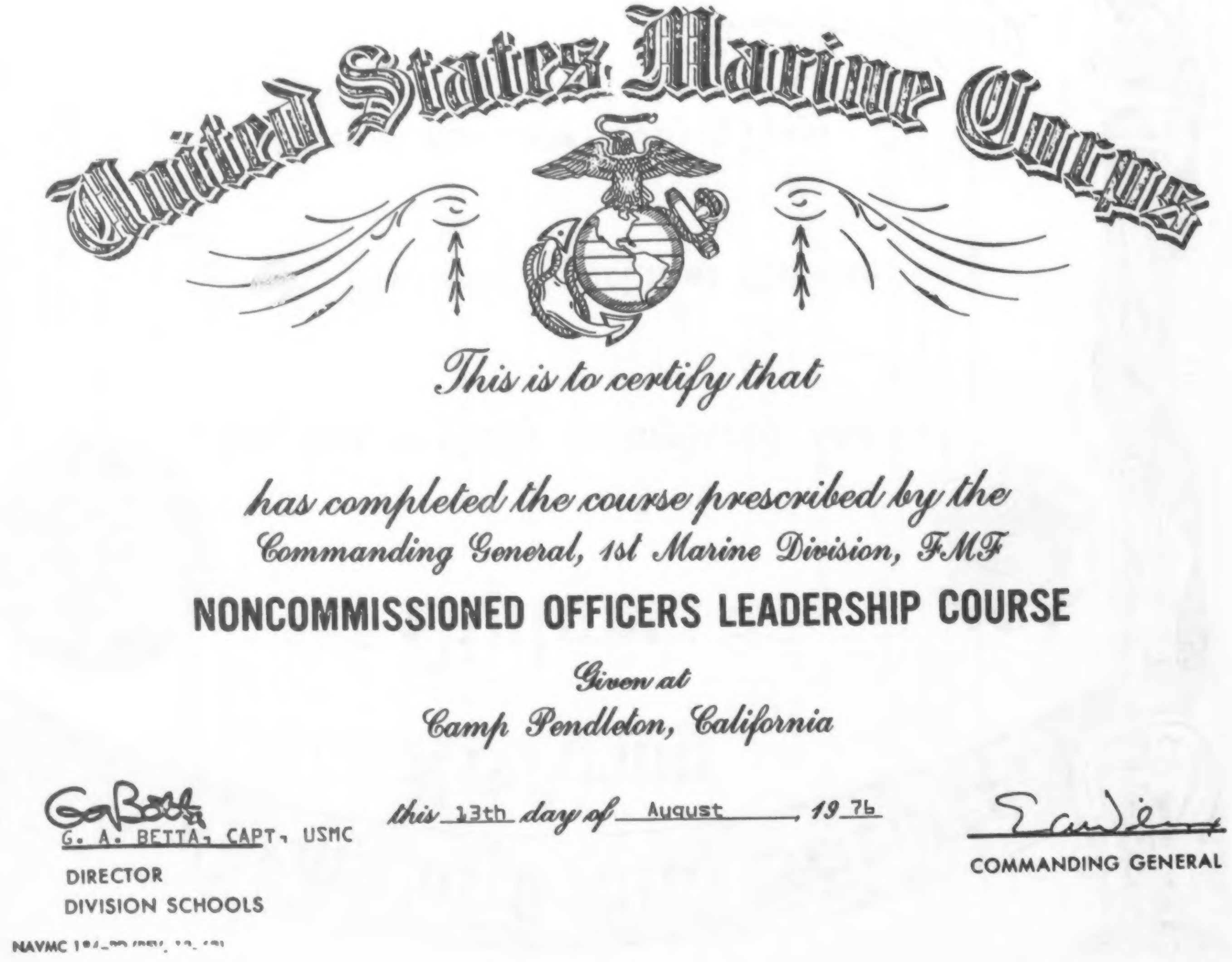
1. SP5 Command and Control Headquarters, NJARNG, attached to HHC 3-113th INF, Riverdale, NJ

MOS awarded: P73C20 S75C20
MOS withdrawn: P75C20
Effective date: 1 December 1979
Authority: Paragraph 4-7 NGR 600-200
Format: 310

FOR THE COMMANDER:

CW2, NJARNG
Asst Adjutant

DISTRIBUTION: A



United States Marine Corps

This is to certify that

has completed the course prescribed by the

Commanding General, 1st Marine Division, FMF

NONCOMMISSIONED OFFICERS LEADERSHIP COURSE

Given at

Camp Pendleton, California

this 13th *day of* August , 19 76

GaBetta
G. A. BETTA, CAPT, USMC
DIRECTOR
DIVISION SCHOOLS

COMMANDING GENERAL

NAVMC [illegible]

and quantitative techniques. The student is provided hands-on programming experience with a remote, time-sharing computer terminal using the BASIC programming language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (5/77).

DD-1402-0003

Computer Orientation for
Intermediate Executives

Course Number: None.

Location: Department of Defense Computer Institute, Washington, DC.

Length: 2 weeks (65 hours).

Exhibit Dates: 8/77–Present.

Objectives: Course is designed to provide an educational background for high-level management personnel who are general-purpose digital computer systems users and have had little or no previous introduction to data processing principles.

Instruction: Course covers computer capabilities, limitations, and applications; the basics of computer hardware and software; systems development management considerations; planning and design; and an introduction to operations research and analysis and quantitative techniques. The student is provided hands-on programming experience with a remote, time-sharing computer terminal using the BASIC programming language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (5/77).

DD-1408-0001

Defense Security Assistance
Management Core

Course Number: SAM-C-11.

Location: Defense Institute of Security Assistance, Wright-Patterson AFB, OH.

Length: 2 weeks (112 hours).

Exhibit Dates: 10/77–Present.

Objectives: To provide an understanding of security assistance management from a national policy level through implementation by responsible agencies with emphasis on attendant planning and programming of the process.

Instruction: Instruction includes United States involvement in security assistance, its purpose, nature, basis, authority and current programs as they relate to government contracting and procurement management. The methods of instruction include lecture, case studies, simulator exercises and interaction with practitioners in the field.

Credit Recommendation: Credit is not recommended because of the limited specialized nature of the course (11/78)

DD-1408-0002

Program Management

Course Number: None.

Location: Defense Systems Management College, Ft. Belvoir, VA.

Length: 20 weeks (393 hours).

Exhibit Dates: 1/73–Present.

Objectives: To offer managers from the government, the military and industry skills and knowledge to successfully manage defense systems acquisition programs.

Instruction: Lectures, discussions and cases cover the following areas: defense program and project management including program cost management, contract management, procurement policy and logistics; production and operations management including quantitive methods; general management and organizational behavior; and managerial finance and accounting.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in production and operations management, 2 in managerial finance, and 1 in general management (4/80) in the graduate degree category, 9 semester hours in defense program and project management (If the student has already completed the course, Program Management for Functional Managers (Program Management for Contract Administration), only 6 hours additional credit is recommended) (4/80).

DD-1408-0003

Industry Financial Management

Course Number: None.

Location: Defense Systems Management College, Ft. Belvoir, VA.

Length: 2 weeks (60 hours).

Exhibit Dates: 1/75–Present.

Objectives: The course provides the participant with an introduction to basic financial analysis.

Instruction: The course provides an overview of finance and managerial accounting, emphasizing the case approach. Topics covered include financial statement analysis, cost accounting, capital budgeting and contract pricing.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in finance and managerial accounting (4/80).

DD-1408-0004

Program Management for Functional
Managers
(Program Management for Contract Administration)

Course Number: None.

Location: Defense Systems Management College, Ft. Belvoir, VA.

Length: 4 weeks (120 hours).

Exhibit Dates: 12/78–Present.

Objectives: To introduce contract administrators to program management systems.

Instruction: Lectures, discussion and cases in defense program and project management, systems acquisition, and functional management.

Credit Recommendation: In the graduate degree category, 3 semester hours in defense program and project management (4/80).

DD-1511-0001

National Security Management
(Correspondence Course of the
Industrial College of the
Armed Forces)

Course Number: None.

Location: Industrial College of the Armed Forces, Ft. Leslie J. McNair, Washington, DC.

Length: 52–104 weeks.

Exhibit Dates: 5/71–Present.

Objectives: To train officers in economic and industrial aspects of national security and the management of resources under all conditions and in the context of national and world affairs.

Instruction: Individualized readings and student research in economic and industrial aspects of national security and the management of resources under all conditions and in the context of national and world affairs, divided into four course blocks as follows: (1) Includes the national security structure, the environment of national security, the world in ferment, national urban problems, and concepts and practice of management. (2) Includes elements of defense economics, human resources for national strength, natural and energy resources, the industrial sector, transportation as the nation's lifeline, and the public utilities (gas, electricity, and telecommunications). (3) Includes economic policies for national strength, emergency economic stabilization, U.S. foreign economic policies, defense organization and management, requirements for national defense, and military systems analysis. (4) Includes defense military manpower, the national assets of science and technology, production for defense, procurement, supply management, and national aerospace programs.

Credit Recommendation: In the upper-division baccalaureate category, for students who complete the program WITH DISTINCTION—or based upon the admitting institution's evaluation of the applicant's work—3 semester hours in political science (The U.S. in Contemporary World Affairs), 3 in social science (The Social and Economic Bases of the U.S. National Security), 3 in management (Defense Policy and Management) (8/74); in the graduate degree category, 3 semester hours for completion of the entire program WITH DISTINCTION—or based upon the admitting institution's evaluation of the applicant's work (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future goals and the regulations of the admitting institution on transfer credit.

DD-1511-0002

National War College

Course Number: None.

Location: National War College, Ft. Leslie J. McNair, Washington, DC.

Length: 43 weeks.

Exhibit Dates: *Version 1:* 8/73–Present. *Version 2:* 8/70–7/73. *Version 3:* 8/56–7/70. *Version 4:* 8/54–7/56.

Objectives: The National War College provides professional education intended to improve the knowledge and expertise of a practitioner in the field of U.S. Foreign Affairs and National Security Affairs.

Instruction: Lectures, seminars, readings, and student research in military and national security affairs and international relations. The Core Curriculum is divided into five blocks as follows: (1) The Foundations of National Security; (2) Domestic Environment and National Security; (3) National Security Problems and the Decision-Making Process; (4) Military Strategy and Strategic Posture; and (5) Reassessment of National Security Problems. Area studies include: (1) Canada, Europe, and the U.S.S.R.; (2) East Asia and the Western Pacific; (3) South Asia, the Middle East, and Africa; and (4) Latin America. Area electives include courses on Europe, the Far East, Africa, Latin America, or the Mid-East. The course titled National Security Analyses includes an intensive study of politico-military economic, social, psychological, and geographic factors for an analysis of critical issues affecting U.S. national security policies and objectives in Europe, the Middle East and South Asia, Africa, the Far East, and Latin America; an overseas trip to one of these areas for observation is part of the course.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 30 semester hours—to be apportioned by the receiving institution—in the areas of history, political science, international relations, and management (8/74); in the graduate degree category, for the core curriculum, 6 semester hours in foreign policy and security affairs, 3 in political science; for one of the area courses plus one related elective, the overseas trip, and the synthesis course, 6 semester hours for students specializing in foreign policy and security affairs OR 3–6 hours for students in a more general program of comparative government or area studies based on the receiving institution's review of the student's records; for research and thesis, 0–6 semester hours; for any two of the following electives, 3 semester hours if relevant to the student's program specialization: National Security and Problems of International Law, Strategy of Arms Control, Problems of Developing Countries and U.S. Security, Current Issues in Defense Policy, U.S. Society and National Security, Current Economic Problems, Vietnam: A Beginning Reassessment, the Energy Issue: Problems and Prospects, of Futuristics (8/74). NOTE: Credit granted for theses should be contingent upon the graduate school's evaluation of the research paper. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. *Version 2:* In the upper-division baccalaureate category, 30 semester hours—to be apportioned by the receiving institution—in the areas of history, political science, international relations, and management (8/74); in the graduate degree category, 3 semester hours in theory and practice of international relations, 3 in U.S. national security policy, 3 in international relations/area studies (specific area to be determined by the geographical region of the student's trip), 0–6 in research and thesis, 3 upon completion of any two of the following elective courses: Current Reinterpretations of Marxist Thought, History of Strategic Thought, or International Law (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for theses should be contingent upon the graduate school's evaluation of the research paper. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. *Version 3:* In the upper-division baccalaureate category, 15 semester hours in political science (including international relations), 9 in recent and contemporary history, 3 in business administration (8/74). *Version 4:* In the upper-division baccalaureate category, 15 semester hours in political science (including international relations), 9 in recent and contemporary history, 3 in business organization and management, 3 in speech (12/68).

DD-1511-0003

INDUSTRIAL COLLEGE OF THE ARMED FORCES (RESIDENT PROGRAM)

Course Number: None.

Location: Industrial College of the Armed Forces, Ft. Leslie J. McNair, Washington, DC.

Length: 43 weeks.

Exhibit Dates: *Version 1:* 8/69–Present. *Version 2:* 8/66–7/69. *Version 3:* 8/65–7/66. *Version 4:* 8/64–7/65. *Version 5:* 8/63–7/64. *Version 6:* 8/54–7/63.

Objectives: To train officers in the political, military, social, economic, and industrial aspects of national security, in resource management, and in the command, staff, and policy-making functions of the national and international security structure.

Instruction: Lectures, practical exercises, seminars, readings, field studies, and student research in the political, military, social, economic, and industrial aspects of national security, in resources management, and in national and world affairs.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in political science, 3 in international relations, 3 in social science, 3 in national economic problems and policies, 3 in principles of economic analysis, 3 in quantitative analysis, 6 in management, 3 in public administration, 0–3 in research and thesis (exact amount to be determined by institutional review) (8/74); in the graduate degree category, 2 semester hours in national security, 2 in aspects of national strength, 2 in international relations, 2 in management of industrial resources, 2 in governmental management, 2 in national economic problems and policies, 0–6 in research and thesis (8/74). NOTE: Credit granted for theses should be contingent upon the graduate school's evaluation of the research paper. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. *Version 2:* In the upper-division baccalaureate category, 12 semester hours in political science (including international relations), 12 in business administration, 3 in recent history, 6 in economics, 3 in geography, 3 in general physics, 3 in mathematics (8/74). *Version 3:* In the upper-division baccalaureate category, 12 semester hours in political science, 9 in business administration, 3 in recent history, 3 in economics, 3 in geography, 3 in general physics, 3 in mathematics (12/68). *Version 4:* In the upper-division baccalaureate category, 12 semester hours in political science (including international relations), 6 in business administration, 3 in recent history, 3 in economics, 3 in geography (12/68). *Version 5:* In the upper-division baccalaureate category, 12 semester hours in political science (including international relations), 6 semester hours in business administration, 3 in speech, 6 in recent history, 3 in economics (12/68). *Version 6:* In the upper-division baccalaureate category, 15 semester hours in political science (including international relations), 3 in business organization and management, 3 in speech, 9 in recent and contemporary history (12/68).

DD-1511-0004

1. POSTGRADUATE INTELLIGENCE COURSE (Defense Intelligence Course)
2. DEFENSE INTELLIGENCE COURSE

Course Number: None.

Location: Defense Intelligence School, Naval Station (Anacostia Annex), Washington, DC.

Length: *Version 1:* 33 weeks (1325 hours). *Version 2:* 38 weeks (1425–1504 hours).

Exhibit Dates: *Version 1:* 3/72–Present. *Version 2:* 1/63–2/72.

Objectives: To train officers in intelligence operations and techniques, and management concepts and techniques as they apply to intelligence resources, processes, and information systems, OR in intelligence procedures, operations, and structures as they relate to international action.

Instruction: Lectures, practical exercises, readings, and individualized study in intelligence operations and techniques and in management concepts and techniques as they apply to intelligence resources, processes and information systems at various levels.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in modern history, 6 in political science, credit in geography on the basis of institutional examination (upon completion of phases one and two), 3 in principles of management (upon completion of phase three) (8/74); in the graduate degree category, 6 semester hours in international relations or political science, OR, if the applicant's field of study in graduate school is in the area of economics or political geography, 4 semester hours in international relations or political science (8/74). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in modern history, 6 in political science, 3 in geography (12/68); in the graduate degree category, 6 semester hours in international relations or political science, OR, if the applicant's field of study in graduate school is in the area of economics or political geography, 4 semester hours in international relations or political science (8/74).

DD-1511-0005

INTER-AMERICAN DEFENSE COLLEGE

Course Number: None.

Location: Inter-American Defense College, Ft. Leslie J. McNair, Washington, D.C..

Length: 52 weeks.

Exhibit Dates: 7/65–Present.

Objectives: To function as a military institution for advanced studies, with the purpose of preparing military personnel and civilian officials of the American States through the study of the Inter-American System and the political, social, economic and military factors that constitute essential elements for the defense of the hemisphere.

Instruction: The curriculum includes a review of basic theoretical topics in the classical areas of power and general studies of the current world situation, thus providing an adequate framework for an extensive analysis of the hemisphere's situation in the light of political, social, economic and military factors. The students learn and practice, in group discussions, the methodology of international cooperation in basic aspects of continental security planning at higher levels of general and military strategy. The modes of instruction include numerous lectures by outside experts, seminars and symposia for discussion of the materials presented, study committees and the preparation of individual research papers.

Credit Recommendation: In the graduate degree category, 6 semester hours in international relations for students rated "very good" or "outstanding" (11/76).

DD-1511-0006

RESERVE COMPONENTS NATIONAL SECURITY SEMINAR

Course Number: None.

Location: National Defense University, Vandenverg AFB, CA; National Defense University, Naval Air Station, Pensacola, FL; National Defense University, Ft. Bragg, NC; National Defense University, Ft. Lesley McNair, Washington, DC.

Length: 2 weeks (60 hours).

Exhibit Dates: 1/76–Present.

Objectives: To present and analyze issues of national security and foreign policy.

Instruction: This seminar includes global intelligence assessment (U.S. policy perspective); U.S. security policy (East Asia, Western Europe, and the Soviet Union, the Middle East and the developing countries); arms trade and arms acquisitions; defense analysis including a case study; DoD Management; ocean policy; economic issues; human and industrial resources; energy problems; and simulation exercise.

Credit Recommendation: Credit is not recommended for the course (1/79)

DD-1512-0001

1. Defense Equal Opportunity Management Institute
2. Defense Race Relations Institute
3. Defense Race Relations Institute

Course Number: None.

Location: Defense Equal Opportunity Management Institute, Patrick AFB, FL; Defense Race Relations Institute, Patrick AFB, FL.

Length: *Version 1:* 16 weeks (585 hours). *Version 2:* 7-11 weeks (184-425 hours). *Version 3:* 7 weeks (205 hours).

Exhibit Dates: *Version 1:* 6/78-Present. *Version 2:* 8/74-5/78. *Version 3:* 10/72-7/74.

Objectives: To provide students with a foundation of knowledge on intergroup relations, cultural specificity, and an awareness of those processes that form social opinion. The program is also designed to provide participants with as instructors in race relations and to provide them with management, planning and applications skills needed in maintaining effective institutional human relations programs.

Instruction: *Version 1:* Lectures, seminars, simulation/interactional techniques, case study, role play and games in the theory and practice of human relations and the application and management of human relations programs. Program takes multidisciplinary approach to minority and behavioral studies and instructional methodology. Program is designed to prepare the participants as instructors and consultants in race relations, equal opportunity and women's issues, and organizational effectiveness as it as it relates to discriminatory policies procedures and practices. *Version 2:* Lectures, seminars, simulation/interactional techniques, case study and field laboratory (inner city visitation) in the theory and practice of human relations and the application and management of human relations programs. The program takes a multi-disciplinary approach to minority and behavioral studies and instructional methodology. Participants are prepared as instructors in race relations. *Version 3:* Lectures, seminars, readings, and discussions in intergroup relations, social processes, behavioral sciences, minority studies, and instructional techniques, divided into five course blocks as follows: (1) The Individual in Social Interaction, including psychological theories of the self, and defense mechanisms; social significance of attitudes and behavior; stereotypes, the psychology of rumor; and race and individual differences. (2) Racism and Ways to Combat It, including military racial disorders, the Kerner Commission report, racism in U.S. history and contemporary life; the nature of prejudice; signs and symbols in communication and their role in racial conflict; institutional racism; racial issues (law enforcement, housing, employment, and education); racial polarization and separation; new white consciousness, contemporary white American culture; and strategies for combatting racism. (3) Group Dynamics, including introduction to group processes, group formation, techniques of facilitating group performance, the individual and the group, group goals and norms; group problems (members and feelings, recognition of hidden agendas within a group, methods of approach); leadership functions in groups; recognition of goal types; conditions affecting cohesiveness and conformity; and intergroup relations, examined through discussion on problems of communication, minority participation in policy and programs, changing the practice of desegregation, and establishing the values of integration. (4) Educational Techniques, including guided discussion as a teaching method; information processing limitations; use of selective exposure, interpretation (attention), and retention in reinforcing attitudes and opinions; use of sociodrama as a teaching technique; lesson planning and educational presentations; student teaching exercises; instructional aids; and creative teaching. (5) Minority Studies, including Afro-American history, migrant group, Appalachian cultures, Indian culture and contemporary thought, and Asian-American history and contemporary situation; history of blacks in the military, contemporary black thought, and inner-city problems. Participants are prepared as instructors in race relations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in sociology of women, 3 in culture and society, 3 in interracial relations and interethnic relations, 3 in organizational effectiveness (9/79); in the graduate degree category, 3 semester hours in interpersonal communication, 3 in instructional methodology (9/79) *Version 2:* In the upper-division baccalaureate category, 18 semester hours in social and behavioral science, to be assigned among the following subject areas: applied psychology, group dynamics, intergroup relations, communications theory, history of minorities and ethnic groups, and instructional methodology (5/76); in the graduate degree category, 9 semester hours in social and behavioral science, to be assigned among the following subject areas: applied psychology, group dynamics, intergroup relations, communications theory, history of minorities and ethnic groups, and instructional methodology (5/76). *Version 3:* In the upper-division baccalaureate category, 4 semester hours in behavioral science laboratory, and 6 in social and behavioral science, to be assigned in any of the following disciplines: applied psychology, group dynamics, intergroup relations, or history of minorities and ethnic groups (8/74); in the graduate degree category, 4 semester hours in behavioral science laboratory (8/74). NOTE: Recommendations of credit are maximum figures. The amount of credit actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit.

DD-1601-0001

Basic Photogrammetric Cartographic Techniques

Course Number: 411-204.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 9 weeks (293 hours).

Exhibit Dates: 5/72-Present.

Objectives: To train enlisted personnel to compile and revise planimetric, topographic maps and photomaps, using drafting instruments and plotting devices.

Instruction: Lectures and practical exercises in the compilation and revision of planimetric, topographic maps and photomaps, including compilation base and radial triangulation, map compilation and map revision, aerial photo mosaic, color separation, maintenance of cartographic equipment and facilities, DMA topographic center tour security, construction of controlled photomosaic, transfer of revision data to compilation base, and delineation of aerial photography.

Credit Recommendation: In the vocational certificate category, 6 semester hours in map and mosaic making (5/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in map and mosaic making (5/74); in the upper-division baccalaureate category, 3 semester hours in map and mosaic making (5/74).

DD-1601-0002

Geodetic Surveying

Course Number: 412-82D20; 5ABD22230; 412-101.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 10 weeks (376 hours).

Exhibit Dates: 12/73-Present.

Objectives: To train enlisted personnel in geodetic surveying.

Instruction: Lectures and practical exercises in geodetic surveying, including the establishment of ground survey control through differential leveling, gravity surveys, traverse, triangulation, and astronomic observation; mapping and charting in the support of weapons systems and other operations; military construction surveys; establishment of control; expedient-road and landing-site planning; and construction-site layout surveys for theater-of-operations construction support.

Credit Recommendation: In the vocational certificate category, 10 semester hours in plane and geodetic surveying (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in plane and geodetic surveying (5/74); in the upper-division baccalaureate category, 6 semester hours in plane and geodetic surveying (5/74).

Related Occupation Codes: 82D.

DD-1601-0003

Advanced Geodetic Surveying

Course Number: 4M-710.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 20 weeks (707 hours).

Exhibit Dates: 12/73-Present.

Objectives: To provide geodetic surveyors with training in advanced geodetic survey techniques.

Instruction: Lectures and practical exercises in advanced geodetic survey techniques, including astronomic observations for longitude, latitude, and azimuth; computing and adjusting geodetic figures, directions, lengths, positions, and differences in elevation; precise instrumentation related to high-order surveys; orientation on analytical point positioning using photogrammetry; vertical control surveys; geodesy and gravity surveys; and map compilation and digital computers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in advanced geodetic surveying (5/74); in the upper-division baccalaureate category, 10 semester hours in advanced geodetic surveying (5/74).

DD-1601-0004

Terrain Analysis

Course Number: 491-81Q20; 491-101.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 10 weeks (314 hours).

Exhibit Dates: 10/73–Present.

Objectives: To provide soils analysts, map compilers, and image interpreters with training in geographic analysis.

Instruction: Lectures and practical exercises in terrain analysis, including principles and techniques of terrain analysis, map reading and land navigation, basic photographic interpretation and cartographic principles, techniques for describing terrain, geologic and hydrologic concepts, amphibious operations planning considerations, evaluation of terrain elements, base development and LOC planning considerations, engineer reconnaissance, engineer applications of photography, and applied terrain analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in terrain analysis (5/74); in the upper-division baccalaureate category, 4 semester hours in terrain analysis (5/74).

Related Occupation Codes: 81Q.

DD-1601-0005

Advanced Photogrammetric Cartographic Techniques

Course Number: 411-205.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 8 weeks (281 hours).

Exhibit Dates: 5/73–Present.

Objectives: To train noncommissioned officers to perform as photogrammetric-cartographic technicians.

Instruction: Lectures and practical exercises in earth and physical sciences as related to the photogrammetric-cartographic career area, including regional physiography, goedetic datums, horizontal and vertical control, positional evaluation, photographic metrics, projections, grids, photo tilt, photo restitution, structural heights, industrial analysis, photogrammetric equipment, aerial reconnaissance systems, and support functions of photographic and lithographic areas.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in photogrammetric interpretations (5/74); in the upper-division baccalaureate category, 6 semester hours in photogrammetric interpretations (5/74).

DD-1601-0006

Geodetic Computing

Course Number: 412-82E20; 5ABD22231; 412-102.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 11 weeks (378 hours).

Exhibit Dates: 12/72–Present.

Objectives: To train enlisted personnel in geodetic computing.

Instruction: Lectures and practical exercises in geodetic computing, including comprehensive mathematics review; use of electronic calculators; map reading; computations in grid and declination grid conversions and transformations; grid traverses and electronic distance measurements; grid triangulation, leveling, traverse, and trilateration; astronomic azimuth and position; and adjustment of geometric figures, directions, linelength, and elevation difference from surveyor notes.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in geodetic computations (5/74); in the upper-division baccalaureate category, 8 semester hours in geodetic computations (5/74).

Related Occupation Codes: 82E.

DD-1601-0007

Mapping, Charting, and Geodesy Officer

Course Number: 4M-7915; 4M-F2; 5OZD5724; 4M-701.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 12 weeks (372 hours).

Exhibit Dates: 1/74–Present.

Objectives: To train officers in mapping, charting, and geodesy.

Instruction: Lectures and practical exercises in mapping, charting, and geodesy processes, including theory of errors; and MC and G survey, photogrammetric, cartographic, and reproduction operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in mapping, charting, and geodesy (5/74); in the upper-division baccalaureate category, 6 semester hours in mapping, charting, and geodesy (5/74).

DD-1601-0008

Construction Surveying

Course Number: 412-82B20; 412-110.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 11 weeks (362 hours).

Exhibit Dates: 7/72–Present.

Objectives: To train enlisted personnel in plane surveying fundamentals.

Instruction: Lectures and practical exercises in plane surveying fundamentals, including equipment maintenance, recording procedures, map reading, route selection, one-minute theodolite, engineer transit, horizontal taping, traverse layout, plane traverse computation, engineer dumpy level, differential leveling, trigonometric elevations, planetable surveying, transit-stadia, contour strip map, horizontal curves, road layout, profile and cross-section leveling, profile and grade line plotting, vertical curves, end area, volumes, boundary alignment, slope and grade stakes, site plans and construction drawings, and building utilities and airfield layout.

Credit Recommendation: In the vocational certificate category, 10 semester hours in construction surveying (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in construction surveying (5/74); in the upper-division baccalaureate category, 6 semester hours in construction surveying (5/74).

Related Occupation Codes: 82B.

DD-1601-0009

Photogrammetric Compilation

Course Number: 411-203; 411-81C30.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 8 weeks (270 hours).

Exhibit Dates: 6/71–Present.

Objectives: To train map compilers in the principles and techniques of photogrammetric map compilation.

Instruction: Lectures and practical exercises in the principles and techniques of photogrammetric map compilation, including multiplex stereoplotting equipment, multiplex stereoplotter orientation, reduction printing, stereocompilation, high-precision stereoplotter, stereotriangulation, and special operational subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photogrammetric compilation (7/74); in the upper-division baccalaureate category, 3 semester hours in photogrammetric compilation (7/74).

Related Occupation Codes: 81C.

DD-1601-0010

Topography and Printing Staff Noncommissioned Officer (NCO)

Course Number: 41-751.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 2 weeks (80 hours).

Exhibit Dates: 6/79–Present.

Objectives: To provide the skills to permit effective performance of supervisory functions in an Army topographic unit.

Instruction: Topics include production scheduling and quality control.

Credit Recommendation: Pending evaluation.

DD-1601-0011

Basic Cartography

Course Number: 411-200.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 16–17 weeks (498 hours).

Exhibit Dates: 6/79–Present.

Objectives: To provide required knowledge to perform basic cartographic and photogrammetric tasks with general supervision.

Instruction: Includes cartographic compilation, map revision and color separation techniques.

Credit Recommendation: Pending evaluation.

DD-1601-0012

Basic Topographic Officers

Course Number: 4M-703.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 8 weeks (296 hours).

Exhibit Dates: 9/77–Present.

Objectives: To teach the student to function in a unit engaged in topographic or geographic intelligence operations.

Instruction: Subjects include survey operations, exploitation of source materials, map base revision and graphic arts operations.

Credit Recommendation: Pending evaluation.

DD-1601-0013

Basic Photographic Processes

Course Number: 740-306.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 14 weeks (460 hours).

Exhibit Dates: 11/76–Present.

Objectives: To teach skills to develop basic technical to complete the photolithographic process.

Instruction: Includes teaching the student to prepare single and multicolor camera ready copy utilizing cold type equipment and metric measurement; course is devoted primarily to camera operations and stripping and platemaking operations.

Credit Recommendation: Pending evaluation.

DD-1606-0001

National Senior Intelligence

Course Number: None.

Location: Defense Intelligence School, Washington, DC.

Length: 14 weeks (560 hours).

Exhibit Dates: 6/72–Present.

Objectives: To provide officers and civilian personnel with the knowledge necessary to hold management positions in the field of national and international intelligence.

Instruction: Lectures in the processing and management of intelligence information, development and implementation of U.S. foreign policy, the national intelligence structure, and government agencies involved in foreign policy.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in international relations, public administration, or political science (1/74).

DD-1706-0001

Multilith 1250 Repair

Course Number: 690-621.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 2 weeks (80 hours).

Exhibit Dates: 11/73–Present.

Objectives: To train multilith operators to troubleshoot, and perform preventive maintenance on, 1250 multiliths.

Instruction: Lectures and practical exercises on the preventive maintenance and repair of the 1250 multilith, including mechanical adjustments necessary to maintain the operational capability of the 1250 multilith, normal operator adjustments, system alignments and adjustments, maintenance, case problems, and preventive maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in multilith 1250 repair (6/74).

DD-1706-0002

Reproduction Equipment Repair

Course Number: 690-41K20; 690-620.

Location: Defense Mapping School, Ft. Belvoir, VA

Length: 15 weeks (512 hours).

Exhibit Dates: 6/72–Present.

Objectives: To train enlisted personnel to operate and repair reproduction equipment, including copy cameras, power paper cutters, paper folder-stitchers, and offset duplicating machines.

Instruction: Lectures and practical exercises in the operation and maintenance of reproduction equipment. Course includes the 24 X 30 copy camera, introduction to photolithography, repair parts supply, operational adjustments, aligning adjustments, repair procedures, maintenance of layout and platemaking equipment, repair of electrical components, repair and maintenance of power paper cutter, repair, maintenance, and timing of the offset duplicating machine, and the maintenance and repair of the bindery equipment and the paper folder and stitcher.

Credit Recommendation: In the vocational certificate category, 5 semester hours in business machine repair (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business machine repair (5/74).

Related Occupation Codes: 41K.

DD-1709-0001

Intermediate Photojournalism

Course Number: 570-ASIJ8.

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: Self-paced 7 weeks (276–280 hours).

Exhibit Dates: *Version 1:* 10/78–Present. *Version 2:* 10/77–9/78.

Objectives: To provide photojournalism training for journalists and photographers.

Instruction: Students are given instruction in basic camera techniques, basic and advanced black and white darkroom procedures, Ektachrome slide processing, photo layout and design, and multi-media slide presentations. A course option includes news, feature, and cutline writing. Part of course is self-paced.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 3 semester semester hours in photojournalism (2/78)

DD-1713-0001

Map Compilation

Course Number: 413-81B20; 411-202.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 9 weeks (325 hours).

Exhibit Dates: 10/70–Present.

Objectives: To train enlisted personnel in the compilation and revision of planimetric maps, topographic maps, and photomaps, using drafting instruments and plotting devices.

Instruction: Lectures and practical exercises in the compilation and revision of planimetric, topographic, and photomaps, including compilation base and radial triangulation, map compilation and revision, aerial photography planning and mosaics, extraction of cartographic detail from aerial photographs, color separation, situation overlays and special studies, maintenance of cartographic equipment and facilities, and editing of color separation scribe sheets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 7 semester hours in map compilation (5/74); in the upper-division baccalaureate category, 4 semester hours in map compilation (5/74).

DD-1713-0002

Cartographic Drafting

Course Number: 411-201.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 9 weeks (293 hours).

Exhibit Dates: 5/72–Present.

Objectives: To train enlisted personnel to perform as cartographic draftsmen.

Instruction: Lectures and practical exercises in cartographic drafting. Topics include compilation base and radial triangulation, basic compilation and map revision, aerial photomosaics, color separation, and situation overlays and special studies.

Credit Recommendation: In the vocational certificate category, 6 semester hours in cartographic drafting (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in cartographic drafting (5/74); in the upper-division baccalaureate category, 2 semester hours in cartographic drafting (5/74).

DD-1713-0003

Construction Drafting

Course Number: 413-81B20; 413-210.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 11 weeks (362–405 hours).

Exhibit Dates: 3/71–Present.

Objectives: To train enlisted personnel to perform as construction draftsmen.

Instruction: Lectures and practical exercises in the preparation of working drawings, charts, and graphs for the construction of roads, airfields, bridges, buildings, ports, harbors, and other military construction, including construction drafting; preparation of mechanical, construction, utilities, structural, and technical drawings; engineer drawings; mechanical lettering; and charts and graphs.

Credit Recommendation: In the vocational certificate category, 10 semester hours in architectural drafting (7/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in architectural drafting (7/74); in the upper-division baccalaureate category, 6 semester hours in architectural drafting (7/74).

DD-1719-0001

Lithographic Stripping and Platemaking

Course Number: 740-83D20; 740-302.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 7 weeks (227 hours).

Exhibit Dates: 4/72–Present.

Objectives: To train enlisted personnel to prepare and produce offset plates to be used in the lithographic printing process.

Instruction: Lectures and practical exercises in the preparation and production of offset plates to be used in the lithographic printing process, including layout, stripping, and platemaking procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in graphics or printing (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in graphics or printing (5/74).

DD-1719-0002

Offset Printing

Course Number: 740-83F20; 740-303.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 8 weeks (276 hours).

Exhibit Dates: 11/73–Present.

Objectives: To train enlisted personnel to operate offset presses in the reproduction of maps, charts, and other printed line work.

Instruction: Lectures and practical exercises in offset printing. Topics include photolithography materials, methods of producing military maps, operation of power paper cutter; maintenance of offset press, controls, feeder and delivery assemblies, cylinder assembly, dampening assembly, linking assembly, printing practice, identification of printing problems, printing a three-color and five-color map, and modern methods of lithographic offset press operations.

Credit Recommendation: In the vocational certificate category, 4 semester hours in graphic arts (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in graphic arts (5/74).

DD-1719-0003

Lithographic Photography

Course Number: 740-83D20; A-740-0020; 740-301.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 8 weeks (276 hours).

Exhibit Dates: 11/73–Present.

Objectives: To train enlisted personnel to operate copy cameras and related equipment.

Instruction: Lectures and practical exercises in fundamentals of copy photography, camera operation, film processing, exposure, filters, line and continuous-tone copying, halftone magenta screens, contact printing, diapositive glass plates, pictomaps, electronic contact printer, and preventive maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic lithography on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic lithography on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 2 semester hours in basic lithography on the basis of institutional evaluation (7/74).

DD-1719-0004

OFFSET DUPLICATING EQUIPMENT OPERATOR

Course Number: 740-304.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 5 weeks (145 hours).

Exhibit Dates: 11/72–Present.

Objectives: To train enlisted personnel in the operation and basic maintenance of the offset duplicator, camera processor, and platemaker equipment.

Instruction: Course includes: introduction to photolithography; training in the operation of the 3M MR-412 Camera Processor and the A.B. Dick 675/...Copier with Platemaker Converter; and training in the operation and maintenance of other duplicating equipment, including the A&M 1250 Multilith Duplicator, the A.B. Dick 350 Duplicator, the ATF Davidson 500 Duplicator, and the ATF Davidson Perfector Duplicator.

Credit Recommendation: In the vocational certificate category, 5 semester hours in offset duplicating equipment operation (6/74).

DD-1721-0001

OPTICAL SURVEY INSTRUMENT REPAIR

Course Number: 670-41B20; 670-601.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 12 weeks (382 hours).

Exhibit Dates: 2/74–Present.

Objectives: To train enlisted personnel to maintain and repair optical surveying and mapping instruments.

Instruction: Lectures and practical exercises in surveying and mapping instrument maintenance, adjustment, and repair, including abney hand level, dumpy level, telescopic alidade, transit, military level, one-minute and one-second theodolites, and survey tapes.

Credit Recommendation: In the vocational certificate category, 8 semester hours in optical survey instrument repair (5/74).

DD-1728-0001

INDUSTRIAL SECURITY SPECIALIST

Course Number: 5220-2.

Location: Defense Industrial Security Institute, Richmond, VA.

Length: *Version 1:* 5 weeks (182–183 hours). *Version 2:* 3 weeks (113 hours).

Exhibit Dates: *Version 1:* 7/76–Present. *Version 2:* 9/72–6/76.

Objectives: To provide industrial security specialists with training in defense industrial security.

Instruction: *All Versions:* Lectures and practical exercises in the history, management, application, and functions of the defense industrial security program, organization for security cognizance, laws and regulations, security hazards, applicable security resources, responsibilities of contracting officers, personnel clearance programs, inspections, security education program, security arrangements, international aspects, and espionage. *Version 1:* This version emphasizes the security threat against the U.S. government and industry; facility protection programs; classified document control; electronic and physical security measures; communications security; vulnerabilities of and protective measures for automatic data-processing systems, emergency/disaster planning and procedures. Audio-visual presentations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 5 semester hours in criminal justice or security administration and management (1/77). *Version 2:* In the vocational certificate category, 2 semester hours in criminology (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in criminology (5/74); in the upper-division baccalaureate category, 2 semester hours in criminology (5/74).

DD-1728-0002

INFORMATION SECURITY MANAGEMENT

Course Number: 5220.7.

Location: Defense Industrial Security Institute, Richmond, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 6/74–Present.

Objectives: To provide instruction on elements of the Defense Department Information Security Program, with particular emphasis on proper security classification and the safeguarding of classified information. Note: This course consists of two 1-week components, referred to separately as (1) Classification Management and (2) Safeguarding Classified Information. Recommended credit is for combined courses only.

Instruction: The security manager; organization for security; policies, objectives and management implementation; classification principles and problems; declassification and downgrading; markings and control of classified documents; communications security; automatic data-processing security; emergency planning; and processing security violations and compromises.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in criminal justice or security administration and management (1/77).

Army Enlisted MOS Exhibits

MOS-00B-001

DIVER

00B10
00B20
00B30
00B40

Exhibit Dates: 10/73-2/78.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Supervises or performs underwater reconnaissance, demolition, repair, and salvage. *Skill Level 10:* Performs as assistant to diver, operates power-driven air compressor and electric and engine-driven winches; makes simple repairs to diving gear and equipment; applies principles of water rescue and first aid. *Skill Level 20:* Able to perform the duties required for Skill Level 10; using self-contained underwater breathing apparatus, performs reconnaissance, salvage, repair, and demolition operations; collects and reports on hydrographic conditions; makes charts and maps of underwater conditions, takes underwater photographs, and prepares beach or river intelligence reports and keeps the diving log; uses demolition techniques to clear underwater obstacles; employs sophisticated first aid treatment, particularly as related to diving operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; using surface-supplied air and diving equipment; performs underwater repair by caulking seams, patching holes, and clearing fouled equipment; directs or assists in underwater construction projects; rigs submerged objects for surfacing; employs underwater welding techniques and other special construction tools; operates decompression chamber; performs underwater inspection, estimates weight of underwater objects, and calculates method of lifting underwater material and objects. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises underwater reconnaissance, demolition, repair, and salvage in addition to scuba and standard diving activities; supervises diver's bell (or appropriate mechanical diving unit) and directs maintenance of diving equipment; interprets hydrographic charts, maps, and sketches; instructs in diving procedures and safety practices; prepares reports on diving operations.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in the use, operation, and maintenance of mechanical equipment and 2 in first aid. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in the use, operation, and maintenance of mechanical equipment and 4 in first aid. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in technical report writing, 3 in marine and oceanographic technologies, and 4 in first aid, and additional credit for detonation/demolition, and photography, on the basis of institutional evaluation, for a minimum total of 13 semester hours (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in the use, operation, and maintenance of mechanical equipment, 12 in marine underwater repair and construction, and 6 in first aid, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 3 in mapping, 3 in technical report writing, 6 in marine and oceanographic technologies, 6 in first aid, and 3 in human relations, and additional credit for detonation/demolition and photography on the basis of institutional evaluation, for a minimum total of 24 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 18 semester hours in the use, operation, and maintenance of mechanical equipment, 18 in marine underwater repair and construction, and 6 in first aid, for a total of 42 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in marine geography, 6 in physics, 6 in technical report writing, 9 in marine and oceanographic technologies, 6 in first aid and safety, 3 in human relations, 3 in personnel supervision, and 6 for field experience in management, and additional credit for detonation/demolition/salvage, and photography, on the basis of institutional evaluation, for a minimum total of 45 semester hours (5/76).

MOS-00B-002

DIVER

00B10
00B20
00B30
00B40

Exhibit Dates: 3/78-Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Supervises or performs underwater reconnaissance, demolition, repair, and salvage. *Skill Level 10:* Performs as assistant to senior divers, operating power-driven air compressor and electric and engine-driven winches; makes simple repairs to diving gear and equipment; applies principles of water rescue and first aid; may perform as diver, using self-contained underwater breathing apparatus and surface-supplied air diving equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; using self-contained underwater breathing apparatus, performs reconnaissance, salvage, repair, and demolition operations; serves as senior diver; collects and reports on hydrographic conditions; makes charts and maps of underwater conditions, takes underwater photographs, and prepares beach or river intelligence reports and keeps the diving log; uses demolition techniques to clear underwater obstacles; employs sophisticated first aid treatment, particularly as related to diving operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; using surface-supplied air and diving equipment; performs underwater repair by caulking seams, patching holes, and clearing fouled equipment; directs or assists in underwater construction projects; rigs submerged objects for surfacing; employs underwater welding techniques and other special construction tools; operates decompression chamber; performs underwater inspection, estimates weight of underwater objects, and calculates method of lifting underwater material and objects. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises underwater reconnaissance, demolition, repair, and salvage in addition to scuba and standard diving activities; supervises diver's bell (or appropriate mechanical diving unit) and directs maintenance of diving equipment; interprets hydrographic charts, maps, and sketches; instructs in diving procedures and safety practices; prepares reports on diving operations.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in the use, operation, and maintenance of mechanical equipment and 2 in first aid, for a minimum total of 5 semester hours; *if duties included diving,* 3 semester hours in scuba diving, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid (9/79).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in the use, operation, and maintenance of mechanical equipment, 4 in first aid, and 6 in scuba diving, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in technical report writing, 3 in marine and oceanographic technologies, 4 in first aid, and 3 in scuba diving, and additional credit for detonation/demolition, photography, and scuba diving on the basis of institutional evaluation, for a minimum total of 16 semester hours (9/79).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in the use, operation, and maintenance of mechanical equipment, 12 in marine underwater repair and construction, 6 in scuba diving, and 6 in first aid, for a total of 36 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 3 in mapping, 3 in technical report writing, 6 in marine and oceanographic technologies, 6 in first aid, 3 in scuba diving, and 3 in human relations, and additional credit for detonation/demolition, photography, and scuba diving on the basis of institutional evaluation, for a minimum total of 27 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 18 semester hours in the use, operation, and maintenance of mechanical equipment, 18 in marine underwater repair and construction, 6 in scuba diving, and 6 in first aid, for a total of 48 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in marine geography, 6 in physics, 6 in technical report writing, 9 in marine and oceanographic technologies, 6 in first aid and safety, 3 in scuba diving, 3 in human relations, 3 in personnel supervision, and 6 for field experience in management, and additional credit for detonation/demolition/salvage, photography, and scuba diving on the basis of institutional evaluation, for a minimum total of 48 semester hours (9/79).

MOS-00C-001

Dog Trainer

00C20

00C40

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 00C was discontinued and its functions were incorporated into MOS 95B, Military Police.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Trains dogs to obedience. *Skill Level 20:* Leads dogs through prescribed series of exercises; teaches dogs to obey commands; knows physical capabilities and limitations of dogs under varying conditions of terrain and climate; determines rejection or assignment to more advanced and specialized training by observing physical and psychological traits; feeds, waters, and grooms dogs, complies with established preventive medicine techniques; applies first aid and administers medicine to dogs. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the training of dogs; analyzes training for more efficient methods and techniques; assigns personnel to positions and evaluates their performance.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in veterinary science or animal science, 3 in dog training, and 3 in animal first aid, for a total of 12 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in veterinary science or animal science, 3 in dog training, 3 in animal first-aid, 3 in personnel supervision, and 3 in instructional techniques, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, and additional credit in management, in education, and in animal science or veterinary science on the basis of institutional evaluation (12/75).

MOS-00D-001

Special Duty Assignment

00D20

00D40

Exhibit Dates: 10/73-Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: This MOS code is used to identify duty positions for special assignments; its use is approved on an individual case basis by the Headquarters of the Department of the Army. Before this code is assigned, a position must encompass duties that are highly specialized, that cannot be classified elsewhere, that do not correspond with formal military courses, and that occur so rarely and in such small numbers that establishment of a separate MOS is not practical. *Skill Level 20:* Used to identify all journeymen and technician levels of skill. *Skill Level 40:* Used to identify all leader levels of skill.

Recommendation, Skill Levels 20 and 40

Credit on the basis of institutional evaluation of the individual student seeking competency recognition (5/76).

MOS-00E-001

Recruiter and Career Counselor

00E40

00E50

Exhibit Dates: 10/73-2/78.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Recruits or counsels civilian and military personnel concerning Army careers. NOTE: Required to have held at least one other MOS. *Skill Level 40:* Contracts, interviews, and advises civilian and military personnel; presents formal and informal talks to individuals and groups; writes, edits, and distributes recruiting material; establishes liaison with public media; evaluates the occupational, educational, and psychological background of prospective recruits and reenlistees; administers and scores screening tests; conducts occupational or career counseling. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, organizes, and coordinates recruitment and reenlistment programs and activities; supervises up to five Skill Level 40 personnel; trains Skill Level 40 personnel; supervises the preparation of correspondence and the keeping of files and records.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in applied psychology, 3 in salesmanship, 3 in technical report writing or business correspondence, 3 in public speaking, 3 in records management, 3 in conference coordination, and 2 in preparation of audio-visual materials, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in human relations, and 2 in vocational counseling, for a total of 10 semester hours or, as an alternative 10 semester hours for field experience in counseling and recruiting. In the graduate degree category, 1 semester hour in human relations and 3 in vocational counseling (2/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in advertising media, 4 for field experience in recruiting, 2 in human relations, 2 in vocational counseling, 3 in publicity release writing, 3 in office management, and 3 in personnel management, for a total of 20 semester hours or, as an alternative, 14 semester hours for field experience in counseling and recruiting, 3 in office management, and 3 in personnel management, for a total of 20 semester hours. In the graduate degree category, 3 semester hours in office administration, 2 in vocational counseling, and 1 in human relations, for a total of 6 semester hours (2/75).

MOS-00E-002

Recruiter

00E20

00E30

00E40

00E50

Exhibit Dates: 3/78-Present.

Career Management Field: 79 (Recruitment and Retention)

Description

Summary: Recruits or supervises the recruitment of personnel for the Army. *Skill Level 20:* Contacts and conducts interviews of individuals who are prospective enlistees into the Army; contacts representatives of schools, corporations, civic groups and other agencies to present career and employment opportunities of the Army; presents formal and informal talks to organizations, groups or individuals; writes, edits and presents recruiting material for use by local communications media; interviews and counsels individuals on enlistment incentives, Army benefits and educational opportunities; evaluates applicants, using screening tests; prepares forms and documents as part of enlistment processing; counsels disqualified applicants; assists in market research and analysis of recruiting area. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may serve as Recruiting Station Commander, Professional Development Sergeant, or Reception Station Liaison Sergeant, supervising 5-8 persons; plans and organizes recruitment programs; maintains statistics on recruiting; prepares enlistment reports and official correspondence; prepares station plans, and conducts professional development programs; supervises subordinate personnel; provides guidance for improvement, and evaluates their performance. *Skill Level 50:* Able to perform the duties required for Skill Level 40; may serve as principal noncommissioned officer of a recruiting region, Senior Professional Development Sergeant, Staff Operations Sergeant or Management Noncommissioned Officer for recruiting; may supervise up to 30 personnel; assists area commander concerning training, production and personnel status; plans and conducts recruiting seminars and conferences; develops presentations reflecting a change in requirements, sales techniques and enlistment contract options; identifies, investigates and takes corrective action in problem areas; trains, assigns duties and evaluates performance of subordinates; develops recruiter training programs.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of advertising, 2 in social psychology, 3 in sales techniques, 3 in public speaking, 3 in records management, and 2 in audio-visual techniques, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, and 2 in vocational counseling, for a total of 8 semester hours (7/79).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in vocational counseling, and 2 in publicity release writing, for a total of 10 semester hours (7/79).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in social psychology, 3 in sales techniques, 3 in public speaking, 3 in records management, 3 in audio-visual techniques, and 3 in personnel supervision, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in vocational counseling, 2 in publicity release writing, and 3 in personnel management, for a total of 13 semester hours (7/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in social psychology, 3 in sales techniques, 3 in public speaking, 3 in records management, 3 in audio-visual techniques, 3 in personnel supervision, and 3 in office practice, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in vocational counseling, 2 in publicity release writing, 3 in personnel management, and 3 in office management, for a total of 16 semester hours (7/79).

MOS-00F-001

Drill Sergeant

00F40

00F50

Exhibit Dates: 10/73-2/75. (Effective 3/75, MOS 00F was discontinued and its functions were incorporated into Special Qualifications Identifier X, Drill Sergeant.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Is a group organizer and leader in various public and special interest activities; conducts classes to develop basic skills in group living and to generate group cohesiveness; plans and coordinates short-term and long-range educational and recreational activities of groups; supervises subordinate personnel; prepares oral and written reports; maintains records. *Skill Level 40:* Prepares lesson plans and training schedules; assists in determining operational policies and procedures; teaches, guides, observes, and evaluates personnel in training; plans and coordinates billeting, food, and transportation arrangements for trainees. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans and coordinates all instructional and operational activities of the Drill Sergeant School; applies prescribed training management policies and procedures to insure the most economical and efficient use of manpower, facilities, equipment, time, and money.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in personnel supervision, 3 in records administration, and 3 for field experience in education, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in institutional management, 3 in communication skills, and 3 for field experience in education, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in personnel supervision, 3 in records administration, and 6 for field experience in education, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in institutional management, 3 in communication skills, and 6 for field experience in education, for a total of 12 semester hours (2/75).

MOS-00H-001

Enlisted Aide

00H20

00H50

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 00H was discontinued and its functions were incorporated into MOS 94B, Food Service Specialist.)

Career Management Field: 94 (Food Service).

Description

Summary: Serves on the personal staff of a general officer; able to perform the duties required for 94B20 (Food Service Specialist). *Skill Level 20:* Performs duties that aid a general officer in the performance of official and military responsibilities, including social responsibilities; assists in planning, arranging, and preparing for official social functions and activities; plans seating arrangements; arranges flowers; recommends menus and orders foodstuff; sets table; cooks and prepares foods, desserts, and beverages; serves meals; receives and keeps records of telephone calls, makes appointments, provides administrative assistance, and receives guests and visitors; assists in maintaining quarters; cares for military uniforms and equipment. *Skill Level 50:* Able to perform the duties required for Skill Level 20; as the supervisor of a large household staff, supervises and coordinates the activities of the enlisted aides.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, 3 in catering, 3 in menu planning, 3 in estimating and purchasing foods, 2 in record keeping, 2 in food decorating, and 1 in first aid for a total of 26 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20. In the upper-division baccalaureate category, 3 semester hours in human relations, 3 in introduction to management, 6 for field experience in management, and 6 in industrial arts education (food service), for a total of 18 semester hours (5/76).

MOS-00J-001

Club Manager

00J50

Exhibit Dates: 10/73-2/78.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Oversees the business management of a club, including all financial operations, food and beverage services, social and recreational activities, alcoholic beverage stores, swimming pools, hotel or motel operations, golf courses, and related services and activities; implements policies concerning the use of facilities, membership, dues, credit, guests, and employee compensation; hires, trains, supervises, and discharges employees. NOTE: May have progressed to 00J50 from 71L40 (Administrative Specialist), 73C40 (Finance Specialist), 73D40 (Accounting Specialist), 94B40 (Food Service Specialist), 03B40 (Performing Arts Specialist), or 94Z50 (Food Service Supervisor).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in office management, 3 in office accounting, 3 in hotel/motel management, 3 in food and beverage purchasing and inventory control, 3 in food preparation, and 3 in personnel supervision, for a total of 24 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (3/75).

MOS-00J-002

Club Manager

00J30

00J40

00J50

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-00U-001

Race Relations/Equal Opportunity Specialist

00U20

00U40

00U50

Exhibit Dates: 10/73-2/78.

Career Management Field: 00 (Exceptional Management Specialties), subfield 000 (Special Assignment).

Description

Summary: Plans, organizes, and coordinates activities of community organizations and groups concerned with social problems. NOTE: Required to have held at least one other MOS. *Skill Level 20:* Administers programs designed to study, analyze, and make recommendations for improvement of social conditions for individuals or small communities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor and trainer of Skill Level 20 personnel; coordinates activities of several agencies or groups; writes reports; directs programs in medium-sized communities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; coordinates the activities of program directors (Skill Level 40 personnel); conducts programs in large communities; trains subordinates; conducts conferences, leads discussions, and gives lectures on race relations/equal opportunity programs; assists in establishing policies and procedures.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in communication skills and 6 semester hours in social sciences. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills, 2 in social psychology, 2 in human relations, and 2 in minority groups, for a total of 8 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 2 in human relations, and 2 in minority groups, for a total of 6 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in communication skills, 6 in social science, 2 in personnel supervision, and 2 for field experience in race relations/equal opportunity, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills, 2 in social psychology, 2 in human relations, 2 in minority groups, 2 in group dynamics or group organizing, and 2 for field experience in race relations/equal opportunity, for a total of 12 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 2 in human relations, 2 in minority groups, 2 for field experience in race relations/equal opportunity, and 1 in social change, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in communication skills, 6 in social science, 2 in personnel supervision, 3 in program administration, 3 for field experience in race relations/equal opportunity, and 2 for field experience in education, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills, 2 in social psychology, 2 in human relations, 2 in minority groups, 2 in group dynamics or group organizing, 2 in program administration, 1 in personnel management, 3 for field experience in race relations/equal opportunity, and 2 for field experience in education, for a total of 18 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 2 in human relations, 2 in minority groups, 1 in social change, 1 in personnel management, 1 in program administration, 2 for field experience in race relations/equal opportunity, and 1 for field experience in education, for a total of 12 semester hours (2/75).

MOS-00U-002

EQUAL OPPORTUNITY NCO

00U20
00U30
00U40
00U50

Exhibit Dates: 3/78–Present.

Career Management Field: 71 (Administration), *subfield* 711 (Administration).

Description

Summary: Plans, organizes, and coordinates activities of community organizations and groups concerned with social problems. NOTE: Required to have held at least one other MOS. *Skill Level 20:* Administers programs designed to study, analyze, and make recommendations for improvement of social conditions for individuals or small communities. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor and trains Skill Level 20 personnel; coordinates activities of several agencies or groups; writes reports and maintains files; directs programs in medium-sized communities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; recommends and drafts equal opportunity and affirmative action plans; conducts training course in human relations and management effectiveness; makes presentations; assists in establishing policies and procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a mid-level manager; supervises, evaluates, and coordinates the activities of lower skill level personnel; assigns duties.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in communication skills and 6 in social sciences. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills, 2 in social psychology, 2 in human relations, 2 in minority groups, and 1 in filing and records management, for a total of 9 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 2 in human relations, and 2 in minority groups, for a total of 6 semester hours (7/79).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in communication skills, 6 in social sciences, 2 in personnel supervision, and 2 in filing and records management, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in communication skills, 3 in social psychology, 3 in human relations, 3 in minority groups, 2 in interviewing techniques, 2 in personnel supervision, and 1 in filing and records management, for a total of 17 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 3 in human relations, and 3 in minority groups, for a total of 8 semester hours (7/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in communication skills, 6 in social sciences, 2 in personnel supervision, 1 in filing and records management, and 2 for field experience in race relations, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in communication skills, 3 in social psychology, 3 in human relations, 3 in minority groups, 2 in interviewing techniques, 2 in technical writing, 2 in personnel supervision, 2 in educational techniques, and 1 in filing and records management, for a total of 21 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 3 in human relations, 3 in minority groups, 2 in educational methods, 2 for field experience in race relations, and 1 in personnel management, for a total of 13 semester hours (7/79).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in communication skills, 6 in social sciences, 3 in personnel management, 1 in filing and records management, 2 for field experience in race relations, and 2 for field experience in education, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in communication skills, 3 in social psychology, 3 in human relations, 3 in minority groups, 3 in personnel supervision, 2 in interviewing techniques, 2 in technical writing, 2 in educational techniques, and 1 in filing and records management, for a total of 22 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 3 in human relations, 3 in minority groups, 2 in educational methods, 3 for field experience in race relations, and 2 in personnel management, for a total of 15 semester hours (7/79).

MOS-00Z-001

COMMAND SERGEANT MAJOR

00Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Is a very experienced mid-level manager responsible for advising high-level administrators on matters of personnel assignment, utilization, promotion, and training, and about operations and logistics; supervises subordinate staff members and evaluates their performance; evaluates the operational effectiveness of the organization. NOTE: Required to have attained Skill Level 50 in at least one other MOS.

Recommendation

In the upper-division baccalaureate category, 18 semester hours in personnel management, 3 in staff principles, procedures, and organization, and 3 in office administration, for a total of 24 semester hours (2/75).

MOS-01B-001

ELECTRICAL-ELECTRONIC ENGINEERING ASSISTANT

01B20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 01B was discontinued and its functions were incorporated into MOS 32Z, Communications-Electronics Maintenance Chief; MOS 35E, Special Electrical Devices Repairer; MOS 35G, Biomedical Equipment Repairer; MOS 35S, Electronic Biomedical Equipment Repairer; MOS 35U, Biomedical Equipment Maintenance Chief; and MOS 74F, Programmer/Analyst.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and field research in any functional branch of electrical or electronic engineering, including power generation and distribution, illumination, wire communication, radar, radio, microwave, and infrared radiation; receives assignments which outline scope of problem, time allotment, and related projects; develops plans for research and locates source material; designs new equipment or the modification of existing equipment; uses advanced mathematics including calculus and differential equations; uses computer terminal and other electronic test and measurement equipment; writes detailed reports, bids, and specifications; supervises engineering shop personnel. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in electrical or electronic engineering.

Recommendation

In the graduate degree category, 6 semester hours in electrical/electronic engineering research and laboratory procedures and additional credit on the basis of institutional evaluation (6/76).

MOS-01C-001

MECHANICAL ENGINEERING ASSISTANT

01C20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 01B was discontinued and its functions were incorporated into MOS 51T, Technical Engineering Supervisor, and MOS 81B, Technical Drafting Specialist.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and field research in mechanical and metallurgical engineering, including research in automotive and aeronautical fields; receives broad scope assignments for the design and development of mechanical equipment and systems; interprets, adapts, and applies engineering principles and practices and complex guidelines in devising research and development working plans; reviews manufacturers' drawings of commercial equipment for possible adaptation for military use; writes formal justifications for proposed designs; prepares specifications and operating and maintenance instructions; sets up test objectives and criteria for designed equipment; evaluates performance test data and field reports; prepares summary reports and staff studies on research projects. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in mechanical, automotive, aeronautical, or metallurgical engineering.

Recommendation

In the graduate degree category, 6 semester hours in mechanical engineering research and additional credit on the basis of institutional evaluation (6/76).

MOS-01D-001

CIVIL ENGINEERING ASSISTANT

01D20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 01D was discontinued and its functions were incorporated into MOS 51T, Technical Engineering Supervisor; MOS 81B, Technical Drafting Specialist; and MOS 91S, Environmental Health Specialist.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level office and field duties in the field of civil engineering; originates, evaluates, and inspects projects in construction, highway, structural, hydraulics, and sanitary engineering; prepares and interprets blueprints and engineering diagrams and makes inspections before and during construction; reviews plans and specifications submitted on engineering projects, and prepares estimates of personnel, materials, and equipment required; performs preconstruction layout and schedules flow of materials and equipment to project; prepares detailed progress reports on projects. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in civil engineering.

Recommendation

In the graduate degree category, 6 semester hours in engineering management and additional credit on the basis of institutional evaluation (6/76).

MOS-01E-001

MATHEMATICS-STATISTICS ASSISTANT

01E20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 01E was discontinued and its functions were incorporated into MOS 73D, Accounting Specialist, and MOS 74F, Programmer/Analyst.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Develops and adapts mathematical or statistical theory and methodology for all kinds of mathematical or statistical investigations; investigates and evaluates applicability, efficiency, and accuracy of theory and methods used in mathematical or statistical programs and studies; applies general mathematics such as differential and integral calculus, theory of differential equations and complex numbers; selects and refines systems of experimental and sample designs and specifications; develops theory and appropriate methodology for analysis of problems; carries out research in experimental and sample design; tests validity and efficiency of design; applies principles of statistical inference and probability. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in mathematics; or a bachelor's degree and a minimum of one year of related experience, or a master's degree, in statistics.

Recommendation

In the graduate degree category, 6 semester hours in mathematical and statistical research and additional credit on the basis of institutional evaluation (6/76).

MOS-01F-001

PHYSICAL SCIENCES ASSISTANT

01F20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 01F was discontinued and its functions were incorporated into MOS 73D, Accounting Specialist; MOS 92C, Petroleum Laboratory Specialist; MOS 95E, Meteorological Observer; and MOS 93F, Field Artillery Meteorological Crewman.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and research functions in the field of physics, meteorology, geology, or chemistry; performs research involving theoretical analysis, exploration, or experimentation of physical phenomena or composition, molecular structure, and properties of substances; investigates applications of theoretical concepts to specific processes, devices, techniques, or products; develops research design and investigative techniques; performs chemical analyses of samples; collects and interprets test data and draws conclusions based on evidence; prepares technical reports and makes recommendations on suitability of samples for intended use. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in physics, meteorology, geology, or chemistry.

Recommendation

In the graduate degree category, 6 semester hours in physical sciences research and additional credit on the basis of institutional evaluation (6/76).

MOS-01G-001

CHEMICAL ENGINEERING ASSISTANT

01G20

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 01G was discontinued and its functions were incorporated into MOS 92B, Medical Laboratory Specialist, and MOS 92C, Petroleum Laboratory Specialist.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and field research in chemical engineering; conducts research in chemical, ceramic, or petroleum engineering; operates small pilot plants or installs and operates a limited variety of equipment for study of one phase of complex development project; plots governing equations of problems to ascertain relationships between experimental data; consolidates data collected during operations and makes necessary conversions for application to large-scale equipment design; performs a variety of chemical and simulated service tests on commercial products or on products newly developed in the laboratory to determine suitability for particular applications; prepares reports describing test procedures and results and recommending actual materials and machinery to be used. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in chemical, ceramic, or petroleum production engineering.

Recommendation

In the graduate degree category, 6 semester hours in chemical research and laboratory procedures and additional credit on the basis of institutional evaluation (6/76).

MOS-01H-001

Biological Sciences Assistant

01H20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and research duties in the field of biological science; conducts studies in biology, bacteriology, biochemistry, entomology, or pharmacology; performs culture work on animal diseases; keeps records of culturing and of purity, density, and viability tests of cultures prepared for use as vaccines; innoculates and performs autopsies on laboratory animals used in the preparation of cultures; identifies, prepares, and ships cultures; makes bio-assays to determine toxicity of drugs and other substances; plans and executes experiments; calculates and administers doses and observes toxic effects produced; prepares detailed reports on experiments and tests. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in biology, bacteriology, zoology, parisitology, botany, pharmacology, or entomology.

Recommendation

In the graduate degree category, 6 semester hours of biological research and laboratory procedures and additional credit on the basis of institutional evaluation (6/76).

MOS-01H-002

Biological Sciences Assistant

01H10
01H20
01H30

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-02B-001
MOS-02C-001
MOS-02D-001
MOS-02E-001
MOS-02F-001
MOS-02G-001
MOS-02H-001
MOS-02J-001
MOS-02K-001
MOS-02L-001
MOS-02M-001
MOS-02N-001
MOS-02T-001

Cornet-Trumpet Player

02B20, 02B40

Baritone-Euphonium Player

02C20, 02C40

French Horn Player

02D20, 02D40

Trombone Player

02E20, 02E40

Tuba Player

02F20, 02F40

Flute-Piccolo Player

02G20, 02G40

Oboe Player

02H20, 02H40

Clarinet Player

02J20, 02J40

Bassoon Player

02K20, 02K40

Saxophone Player

02L20, 02L40

Percussion Player

02M20, 02M40

Piano Player

02N20, 02N40

Guitar Player

02T20, 02T40

Exhibit Dates: 10/73–2/77.

Career Management Field: 97 (Band).

Description

Summary: Plays specified musical instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 20:* Executes instrumental studies and ensemble and solo literature of moderate difficulty within the facility-range typical of university lower-division music majors; sings simple melodic patterns at sight; possesses a basic understanding of musical structure equivalent to that of a college or university freshman music major; performs preventive maintenance on the specified musical instrument; performs duties as may be assigned in administration, supply, and music library. *Skill Level 40:* Possesses the musicianship and skills required for Skill Level 20; supervises and assigns duties to Skill Level 20 personnel; is assigned to lead instrumental sections, marching formations, and large or small performing groups; may be assigned appropriate tasks in music arranging, music library, supply, equipment management, and other administrative duties.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in marching band, 2 in concert band, and 4 in music theory (basic harmony and ear training), for a minimum total of 8 semester hours; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal) (6/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), for a minimum total of 12 semester hours; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal). In the upper-division baccalaureate category, credit in conducting, arranging, and music administration and supervision on the basis of institutional evaluation (6/76).

MOS-02B-002
MOS-02C-002
MOS-02D-002
MOS-02E-002
MOS-02F-002
MOS-02G-002
MOS-02H-002
MOS-02J-002
MOS-02K-002
MOS-02L-002

Cornet or Trumpet Player

02B10, 02B20, 02B30

Baritone or Euphonium Player

02C10, 02C20, 02C30

French Horn Player

02D10, 02D20, 02D30

Trombone Player

02E10, 02E20, 02E30

Tuba Player

02F10, 02F20, 02F30

Flute or Piccolo Player

02G10, 02G20, 02G30

Oboe Player

02H10, 02H20, 02H30

Clarinet Player

02J10, 02J20, 02J30

Bassoon Player

02K10, 02K20, 02K30

Saxophone Player

02L10, 02L20, 02L30

Exhibit Dates: 3/77–Present.

Career Management Field: 97 (Band).

Description

Summary: Performs on specified brass or woodwind instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays brass or woodwind instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on musical instrument. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; plays instrument in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

MOS-02M-002

PERCUSSION PLAYER

02M10
02M20
02M30

Exhibit Dates: 3/77-Present.

Career Management Field: 97 (Band).

Description

Summary: Performs on specified percussion instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays percussion instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, indefinite pitch percussion parts of standard band literature; plays, with minimum preparation, definite and indefinite pitch percussion parts of standard band literature, performs preventive maintenance on all percussion instruments. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; plays instrument in small instrumental groups as appropriate; plays, with minimum preparation, any percussion part of medium and difficult concert band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises percussion section; serves in various intermediate staff/administrative positions within the band as assigned; organizes, instructs, and rehearses the percussion section; organizes and leads small instrumental groups; plays at sight, intermediate definite and indefinite pitch percussion parts of all styles of music; plays, with minimum preparation, any moderately difficult to difficult percussion music; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of instruments in the percussion section.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

MOS-02N-002

PIANO PLAYER

02N10
02N20
02N30

Exhibit Dates: 3/77-Present.

Career Management Field: 97 (Band).

Description

Summary: Plays keyboard or percussion instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays keyboard or percussion instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays piano in dance/stage bands, ensembles, and combos; plays percussion instrument in marching band; plays, with minimum preparation, easy percussion parts of standard concert band music on keyboard type mallet instruments; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on musical instruments. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; plays instrument in small instrumental group as appropriate; improvises on the piano utilizing chord progressions; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises consolidated piano/guitar section; serves in various intermediate staff/administrative positions within band as assigned; organizes, tunes, instructs, and rehearses section; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of instruments in section.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

MOS-02P-001
MOS-02Q-001
MOS-02R-001

Brass Group Leader

02P40

Woodwind Group Leader

02Q40

Percussion Group Leader

02R40

Exhibit Dates: 10/73-Present.

Description

Supervises a brass, woodwind, or percussion band section and performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles; able to perform the duties of a related instrumentalist MOS at Skill Level 40; is delegated primary responsibility for specific administrative duties of the musical unit, such as equipment or library management, coordination of assigned musical performances, administration of the equal opportunity program, etc; is capable of conducting and rehearsing the band in the absence of the bandmaster and the enlisted bandleader.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, 4 in music theory (basic harmony and ear training), and 3 in personnel supervision, and additional credit in music theory, applied music (individual instruction in performance), small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal), and human relations on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision, and additional credit in arranging and for field experience in education on the basis of institutional evaluation, for a minimum total of 6 semester hours (6/76).

MOS-02S-001

Special Bandsman

02S20

02S50

Exhibit Dates: 10/73-2/77.

Career Management Field: 97 (Band).

Description

Summary: Performs as a musician or as a member of a special band, such as the U.S. Army Band, the U.S. Army Field Band, or the U.S. Military Academy Band at West Point. *Skill Level 20:* Plays brass, woodwind, percussion, or stringed instruments or performs as musical arranger, copyist, librarian, music electronic integration specialist, musical instrument repairman, music commentator/annotator, procurement specialist, solo instrumentalist or vocalist; executes marching movements in military formations; doubles on related instruments; plays solo passages. *Skill Level 50:* Able to perform the duties required for Skill Level 20; serves as the principal noncommissioned officer in an instrumental, choral, or music section, instrumental group, or special band; instructs, trains, rehearses, and conducts instrumental groups to achieve recognized standards; organizes separate groups simultaneously to provide required instrumentation; recognizes, explains, demonstrates, and corrects section performance techniques; rehearses and trains section members to achieve correct musical rendition and coordination; ascertains section changes to improve overall sound rendition, tone quality, playability, and balance; instructs section instrumentalist in all aspects of related music; plans, directs, and controls group and other band segment rehearsals; determines and produces proper rendition of all sections and composite coordination; plans, arranges, instructs, and conducts sound improvement, intonation, tonality, and musicality of concert band; conducts band as assistant enlisted bandleader in formations and ceremonies; plans administrative and logistical support for special band operations; designs, constructs, and assembles necessary facilities for band presentation; applies public relations techniques to special band employment.

Recommendation, Skill Levels 20 and 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), and additional credit in band, music theory, electronics, and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal) on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category or in the graduate category, credit on the basis of institutional evaluation of the individual's experience and area of specialization in the following subject areas: applied music, advanced music theory, conducting, composition, arranging, music history, instrument repair, music administration and supervision, education, human relations, and management (6/76).

MOS-02S-002

Special Bandsperson

02S10

02S20

02S30

02S40

02S50

Exhibit Dates: 3/77-Present. Pending evaluation.

MOS-02T-002

Guitar Player

02T10

02T20

02T30

Exhibit Dates: 3/77-Present.

Career Management Field: 97 (Band).

Description

Summary: Plays guitar or percussion instruments in appropriate musical organization; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays guitar or percussion instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays guitar in dance/jazz bands, ensembles, and combos; plays percussion instrument in marching band; plays miscellaneous percussion instruments in concert band; plays, at sight, moderately easy melodic lines with chord symbols; plays, with minimum preparation, standard guitar music of any style; improvises on the guitar using chord progressions; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on musical instrument. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; plays instrument in small instrumental groups as appropriate; plays, at sight, moderately easy guitar music of any style; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises consolidated piano/guitar section; serves in various intermediate staff/administrative positions within band as assigned; organizes, tunes, instructs, and rehearses section; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

MOS-02Z-001

Enlisted Bandleader

02Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 97 (Band).

Description

Serves as the principal noncommissioned officer of an Army band; able to perform the duties required for 02P40 (Brass Group Leader), 02Q40 (Woodwind Group Leader), or 02R40 (Percussion Group Leader); selects, prepares, and presents concert, marching, dance, stage, and show band music and assumes any other musical or military functions of the bandmaster as delegated; assists in planning, coordinating, and supervising all activities in support of the band mission; applies public relations techniques to band employment; supervises on-the-job training; advises bandmaster on all personnel matters.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), and additional credit in music theory, applied music (individual instruction in performance), and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal) on the basis of institutional evaluation for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in conducting, 3 in music administration and supervision, 3 in introduction to management, 3 in personnel management, 3 in human relations or public relations, and 6 for field experience in management, and additional credit in arranging and for field experience in education on the basis of institutional evaluation, for a minimum total of 21 semester hours (6/76).

MOS-03B-001

Performing Arts Specialist

03B20

03B40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 03B was discontinued.)

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Summary: Supervises and conducts theatrical and musical programs. *Skill Level 20:* Selects material; locates directors, writers, and technicians; auditions performers; calls rehearsals; plans costumes and staging; schedules use of facilities; conducts clinics and workshops in all areas of theatrical production. *Skill Level 40:* Able to perform the duties required for Skill Level 20; coordinates and supervises the planning of all elements and phases of several performing arts programs; directs productions.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in costume and scene design, 3 in musical theater, 3 in technical theater, 3 in stagecraft, 6 in play production, and 6 for a theater internship, for a total of 24 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in costume and scene design, 3 in musical theater, 3 in stagecraft, 6 in play production, 6 for a theater internship, 3 in human relations and 3 in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours in play directing, 3 for field experience in management, and 3 in records administration, for a total of 12 semester hours (5/76).

MOS-03C-001

Physical Activities Specialist

03C20

03C40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Summary: Supervises, conducts, and administers sports, recreation, and first aid programs; manages sports and recreation facilities and equipment. *Skill Level 20:* Plans, organizes, and conducts sports and recreation programs; manages, or assists in the management of, indoor and outdoor sports and recreation facilities; organizes and conducts team and individual sports competitions; provides instruction in physical fitness exercises, first aid, water safety, and various sports; conducts sports clinics to explain rules, techniques, safety, and sportsmanship; issues athletic supplies and equipment; inspects and performs preventive maintenance on athletic facilities and equipment; acts as lifeguard. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the operation of sports and outdoor recreation programs, the organization of team and individual sports competitions, the management of sports facilities; controls the issuance of athletic supplies and equipment and the scheduling of facilities; supervises and accounts for fees collected for the rental or sales of supplies or equipment and the use of sports or recreation facilities; manages and evaluates the work activities of subordinate personnel; prepares correspondence, reports, and publicity materials concerning physical activity programs.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in beginning lifesaving and 2 in senior lifesaving, based on American Red Cross Certificate. In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in public speaking, 2 in first aid (care and prevention of athletic injuries), 2 in individual and dual sports, 2 in team sports, 2 in physiology of exercise, 2 in theory of teaching and coaching sports, 2 in beginning lifesaving, and 1 in senior lifesaving, for a total of 19 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in beginning lifesaving and 2 in senior lifesaving, based on American Red Cross Certificate. In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in public speaking, 3 in English composition, 3 in office management, 3 in personnel management, 3 in organization and administration of physical education programs, 2 for field experience in education, 2 in control of athletic facilities, 2 in first aid (care and prevention of athletic injuries), 2 in individual and dual sports, 2 in team sports, 2 in physiology of exercise, 2 in theory of teaching and coaching sports, 2 in beginning lifesaving, and 1 in senior lifesaving, for a total of 35 semester hours (2/75).

MOS-03C-002

Physical Activities Specialist

03C10

03C20

03C30

03C40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS-03D-001

Arts and Crafts Specialist

03D20

03D40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 03D was discontinued.)

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Summary: Supervises, organizes, and conducts arts and crafts activities. *Skill Level 20:* Instructs and supervises individuals and groups of varying levels of ability in a wide variety of basic arts and crafts activities; manages and maintains crafts facilities and equipment; organizes and promotes displays, exhibits, contests, and demonstrations. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises arts and crafts programs and management of facilities; requisitions and controls the use of supplies; accounts for use of funds; instructs subordinate personnel.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in painting fundamentals, 3 in drawing fundamentals, 3 in introductory sculpture, 3 in ceramics, 9 in crafts, and 3 in human relations, and additional credit on the basis of institutional evaluation, for a minimum total of 24 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in painting fundamentals, 3 in drawing fundamentals, 3 in introductory sculpture, 3 in ceramics, 9 in crafts, 6 in human relations, and 3 in personnel supervision, and additional credit on the basis of institutional evaluation, for a minimum total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in records administration, and 3 for an internship in education for a total of 9 semester hours (5/76).

MOS-03Z-001

SPECIAL SERVICES SENIOR SERGEANT

03Z50

Exhibit Dates: 10/73-8/77.(Effective 9/77, MOS 03Z was discontinued and its functions were incorporated into MOS 03C, Physical Activities Specialist, and MOS 71L, Administrative Specialist.)

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Supervises development and management of Special Services programs, including entertainment, sports, arts and crafts, outdoor recreation, youth activities, and library programs.

Recommendation

In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 6 semester hours in recreation resource relationships, 6 in recreation resources inventory and planning, 3 in recreation facility and site planning, 3 in organization and management of recreational sports activities, 6 in special problems in recreation, 6 for a recreation internship, 6 in human relations, 6 for field experience in management, 3 in introduction to management, 3 in records administration, and 3 in personnel supervision, for a total of 51 semester hours (5/76).

MOS-04B-001

TRANSLATOR-INTERPRETER

04B20 (04B2L)

04B30 (04B3L)

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 04B was discontinued and its functions were incorporated into MOS 96C, Interrogator.)

Career Management Field: 96 (Military Intelligence).

Description

Summary: Performs translating and interpreting duties, using knowledge of English and a foreign language. *Skill Level 20:* Prepares translations of written foreign language material into English and written English into a foreign language; prepares summaries of translated foreign documents; translates foreign technical publications; translates announcements, speeches, radio scripts, publications, and other materials into a foreign language; establishes and maintains a file of translation and language reference materials; edits translations for correctness of grammatical construction, phraseology, punctuation, idiom, and clarity of expression; coordinates translating activities; instructs and advises translators. *Skill Level 30:* Able to perform the duties required for Skill Level 20; interprets oral statements into either English or a foreign language using phraseology selected to preserve the original intent, meaning, and emphasis; translates and orally expresses statements in English or in a foreign language.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in typing, 2 in record keeping, and 1 in filing, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 2 in English grammar, 2 in typing, 1 in record keeping, and 1 in filing, for a total of 12 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating (written), 3 in written communication skills, 3 in public speaking, 3 in human relations, 2 in English grammar, 2 in typing, 1 in record keeping, and 1 in filing, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in interpreting (oral). NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

MOS-04C-001

EXPERT LINGUIST

04C20 (04C2L)

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 04C was discontinued and its functions were incorporated into MOS 96C, Interrogator.)

Career Management Field: 96 (Military Intelligence).

Description

Able to perform the duties required for 04B30 (Translator-interpreter); understands the customs and habits of the people of at least one foreign country; analyzes the content of foreign documents and publications; translates or writes in English or foreign language on a variety of technical, tactical, and strategic subjects; reviews translations for accuracy and completeness; employs free translation techniques and uses idiomatic language; interprets, into either English or foreign language, statements made by participants in legal proceedings, conferences, public relations interviews, and radio and loudspeaker broadcasts; acts as a chief translator of a team comprised of 18 or more enlisted linguists or as a special interpreter for a general officer or as a chief interpreter in an interpreter platoon of a military intelligence linguistic company.

Recommendation

In the vocational certificate category, 3 semester hours in typing, 2 in record keeping, and 1 in filing, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating (written), 3 in public speaking, 3 in understanding a foreign culture, 3 in written communication, 3 in human relations, 2 in English grammar, 2 in typing, 1 in record keeping, and 1 in filing, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in interpreting (oral). NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

MOS-05B-001

RADIO OPERATOR

05B20

05B40

Exhibit Dates: 10/73-2/78.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates and maintains radio communications equipment and transmits and receives messages by voice or by Morse Code. *Skill Level 20:* Connects equipment components; erects antennas; installs power generators; test-operates equipment; applies prescribed radio procedures; transcribes International Morse Code into clear text and records on message forms; performs preventive maintenance on radio and associated power equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a radio-operating activity comprised of at least 4 to 30 or more radio operators; selects installation sites; prepares and disseminates work schedules, operating procedures, and instructions; corrects faulty work practices and operating techniques by instruction and demonstration; checks operational logs, maintenance schedules, and station files for completeness and accuracy; requisitions supplies; prepares technical and administrative reports. NOTE: May have progressed to 05B40 from 05E40 (Voice Radio Operator).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in broadcasting, 3 in radio communications (code), 3 in small instrument maintenance, and 2 in basic Morse Code, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications, 3 in elementary broadcasting, and 2 in basic Morse Code, for a total of 8 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications, 3 in elementary broadcasting, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 2 in basic Morse Code, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS-05B-002

RADIO OPERATOR

05B10

05B20

Exhibit Dates: 3/78-Present.

Career Management Field: 31 (Communications—Electronics Operations).

Description

Summary: Operates and installs radio communications equipment and transmits and receives messages by voice. *Skill Level 10:* Connects voice radio equipment components; erects antennas; installs power generators; test-operates equipment; applies prescribed radio procedures; performs limited preventive maintenance on radio and associated power equipment. *Skill Level 20:* Able to perform the duties for Skill Level 10;

may serve as first-line supervisor of radio-operating activity comprised of two or three Skill Level 10 personnel; selects installation sites; corrects faulty work practices and operating techniques by instruction and demonstration; checks operational logs and station files for completeness and accuracy; prepares equipment inspection reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 6 semester hours in broadcasting. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications and 3 in elementary broadcasting (10/79).

MOS-05C-001

Radio Teletype Operator

05C20
05C40
05C50

Exhibit Dates: 10/73-2/78.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or sets up and operates radio teletype or tape relay equipment and transmits and receives messages by teletype or tape relay or Morse Code. *Skill Level 20:* Connects and operates radio teletype keyboard and tape relay equipment; erects antennas; installs power generators; prepares messages in proper format for delivery, establishes and maintains station logs; performs preventive maintenance on radio teletype and tape relay systems: operates radio equipment in voice mode. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a radio teletype operating team comprised of 4 to 24 operators; selects sites and supervises installation of equipment; prepares work schedules, operating procedures, and instructions; instructs and demonstrates proper procedures to radio teletype operators; checks logs and files for accuracy; prepares administrative and technical reports. NOTE: May have progressed to 05C40 from 05F40 (Radio Teletypewriter Operator, Non-Morse). *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; interprets and supervises the execution of policies and procedures; advises superiors on personnel matters; directs and coordinates administrative activities; coordinates food service and supply activities; assists superiors in planning and implementing on-the-job training. NOTE: May have progressed to 05C50 from 05B40 (Radio Operator).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in teletypewriter operation, 3 in typewriting, 3 in broadcasting, 3 in small instrument maintenance, and 2 in basic Morse Code, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting, 3 in teletypewriter operation, and 3 in elementary radio communications, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting, 3 in teletypewriter operations, 3 in elementary radio communications, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 2 in technical writing for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in maintenance management, 3 in records administration, and 3 in office management, for a total of 18 semester hours (3/76).

MOS-05C-002

Radio Teletype Operator

05C10
05C20
05C30

Exhibit Dates: 3/78-Present.

Career Management Field: 31 (Communications—Electronics Operations).

Description

Summary: Supervises or sets up and operates radio teletype or tape relay equipment and transmits and receives messages by teletype or tape relay. *Skill Level 10:* Connects and operates radio teletype keyboard or voice equipment; erects antennas; installs power generators; prepares messages in proper format for delivery; establishes and maintains station logs; performs preventative maintenance on radio teletype and tape relay systems; operates radio equipment in voice mode. *Skill Level 20:* Able to perform the duties required for Skill Level 10; may serve as a team chief, supervising two or more Skill Level 10 personnel; selects sites and assists in installation of equipment; prepares work schedules, operating procedures, and instructions; instructs and demonstrates proper procedures; prepares equipment inspection reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises from 2 to 4 radio teletype operations teams; supervises installation of equipment; establishes training program to correct faulty work practices and operating procedures; prepares and disseminates work schedules, operating procedures and instructions; establishes and supervises maintenance program to ensure operational readiness of equipment; requisitions supplies and prepares technical and administrative reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 6 semester hours in teletypewriter operation and 3 in typewriting. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting, 3 in human relations, and 3 in personnel supervision, for a total of 9 semester hours (10/79).

MOS-05D-001

EW/Signal Intelligence Emitter Identifier/Locator

05D20
05D30
05D40

Exhibit Dates: 10/73-2/77.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates or supervises the operation of radio direction-finding systems and other systems using advanced identification techniques; intercepts and acquires bearings on target transmitters and performs analysis on maps or charts to establish probable location of target transmitters; intercepts, acquires, and performs analysis on signals from target transmitters. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Employs special identification techniques to recognize, identify, and locate foreign radio transmitters; forwards bearings and identification information to a control center; selects, erects, and orients tactical antennas; obtains desired visual display on specialized monitor oscilloscopes; records electrical characteristics of signals displayed, using light sensitive recorders; operates direction-finding and related cryptological, communications, and automatic data processing equipment; prepares and maintains operation logs and card files; types at a minimum rate of 25 words per minute; copies International Morse Code at a minimum rate of 15 groups per minute. *Skill Level 30:* Able to perform the duties required for Skill Level 20; maintains section management files; classifies, analyses, and evaluates observed bearings and waveform oscillograms; establishes, plots, and evaluates bearings to determine probable geographical location of foreign transmitters; performs measurements of bands on oscillograms to determine ripple frequency, modulation percentages, and duration of other effects; maintains calibration and accuracy studies, and computes statistical data, including standard deviations and systemic errors; monitors quality control of input and data for automatic data processing support; may serve as a first-line supervisor, assigning workloads and completing personnel evaluations; presents oral and written reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; inspects equipment to ensure proper alignment and orientation; provides guidance and assistance in site selection and equipment installation; prepares written and oral reports; establishes and supervises training programs; performs quality control measures and writes quality control reports; establishes and maintains facilities and support for site personnel; implements emergency action plans; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations and 2 in typing (9/79).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in

written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 1 in office practices, for a total of 10 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in office practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in office practices, for a total of 18 semester hours (9/79).

MOS-05D-002

EW/Signal Intelligence Emitter Identifier/Locator

05D10

05D20

05D30

Exhibit Dates: 3/77-Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates or supervises the operation of radio direction-finding systems and other systems using advanced identification techniques; intercepts and acquires bearings on target transmitters and performs analysis on maps or charts to establish probable location of target transmitters; intercepts, acquires, and performs analysis on signals from target transmitters. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competences and knowledges associated with the MOS were evaluated. *Skill Level 10:* Employs special identification techniques to recognize, identify, and locate foreign radio transmitters; forwards bearings and identification information to a control center; selects, erects, and orients tactical antennas; obtains desired visual display on specialized monitor oscilloscopes; records electrical characteristics of signals displayed, using light sensitive recorders; operates direction-finding and related cryptological, communications, and automatic data processing equipment; prepares and maintains operation logs and card files; types at a minimum rate of 25 words per minute; copies International Morse Code at a minimum rate of 15 groups per minute. *Skill Level 20:* Able to perform the duties required for Skill Level 10; maintains section management files; classifies, analyzes, and evaluates observed bearings and waveform oscillograms; establishes, plots, and evaluates bearings to determine probable geographical location of foreign transmitters; performs measurements of bands on oscillograms to determine ripple frequency, modulation percentages, and duration of other effects; maintains calibration and accuracy studies, and computes statistical data, including standard deviations and systemic errors; monitors quality control of input and data for automatic data processing support; may serve as a first-line supervisor, assigning workloads and completing personnel evaluations; presents oral and written reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects equipment to ensure proper alignment and orientation; provides guidance and assistance in site selection and equipment installation; prepares written and oral reports; performs quality control measures and writes quality control reports; establishes and maintains facilities and support for site personnel; implements emergency action plans; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations and 2 in typing (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 1 in office practices, for a total of 10 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in office practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in office practices, for a total of 18 semester hours (6/77).

MOS-05E-001

VOICE RADIO OPERATOR

05E20

05E40

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 05E was discontinued and its functions were incorporated into MOS 05B, Radio Operator.)

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates and maintains radio communications equipment and transmits and receives messages by voice. *Skill Level 20:* Connects components; erects antennas; installs power generators; test-operates equipment; installs and operates radio wire integration facilities and devices associated with FM/SSB radio nets; performs preventive maintenance on radio and associated power equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a radio operating facility comprised of at least 4 to 30 or more radio operators; selects installation sites; prepares and disseminates work schedules, operating procedures, and instructions; instructs and demonstrates proper procedures to radio operators; checks operational logs, station files, and maintenance schedules for completeness and accuracy; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in broadcasting and 3 in small instrument maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in elementary broadcasting and 3 in elementary radio communications (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in elementary broadcasting, 3 in elementary radio communications, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS-05F-001

RADIO TELETYPEWRITER OPERATOR (NON-MORSE)

05F20

05F40

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 05F was discontinued and its functions were incorporated into MOS 05C, Radio Teletype Operator.)

Career Management Field: 72 (Telecommunications).

Description

Summary: Sets up and operates teletypewriter and tape relay equipment. *Skill Level 20:* Erects antennas; installs power generators; processes incoming and outgoing messages; converts perforated tape into literal copy; encodes and decodes messages with cryptographic devices; establishes and posts logs; performs preventive maintenance on equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; teaches subordinates correct operating procedures; plans work and maintenance schedules; maintains records; writes technical and administrative reports; supervises installation of equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in basic typewriting, 3 in radio operation, 6 in radio service and repair, and 1 in small-engine operation and maintenance, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic typewriting, 3 in radio operation, and 3 in radio service and repair, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in basic typewriting, 3 in radio operation, 6 in radio service and repair, 1 in small-engine operation and maintenance, 3 in technical writing, and 6 for a practicum in personnel and records management, for a total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic typewriting, 3 in radio operation, 3 in radio service and repair, 3 in technical writing, 2 in personnel supervision, and 2 in records management, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in business administration (2/75).

MOS-05G-001

SIGNAL SECURITY SPECIALIST

05G20
05G40
05G50

Exhibit Dates: 10/73-2/77.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises and conducts signal security operations throughout the army; monitors and analyzes communications signals; performs electronic security inspections; reviews documents for adequacy of security; prepares comprehensive written reports and makes oral presentations. *NOTE:* Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Performs transcriptions, monitoring, and basic analysis of radiotelephone and conventional telephone messages to detect communications security discrepancies and violations; reviews communications, electronic signal instructions, communications electronic operating instructions, and operations plans and orders to determine adequacy of communications security; reads and interprets maps and map overlays; prepares basic reports on signal security activities; operates and performs user maintenance on communications security and monitoring equipment; selects sites for, erects, and orients tactical antennas; selects and uses commercial battery and generator power; performs general office duties such as filing, typing (35 words per minute minimum), preparation of reports and record keeping; presents oral reports concerning communications security activities. *If duty position was Communications Security Specialist,* performs the following duties: Provides basic signal security advice and assistance to commanders and performs security analysis of security codes; establishes and supervises operating sites; writes reports, including statistical analyses and presents oral reports on data collected; makes recommendations to eliminate disclosure of intelligence information; provides advice and assistance concerning cryptographic systems and the interpretation of basic documents and regulations; determines need for written communication security instructions; prepares special, periodic, and project reports on signal security activities; may serve as team chief, supervising 2-5 persons. *If duty position was Senior Communications Security Specialist,* performs the following duties: Is a first-line supervisor of 10-12 persons, provides advice and assistance on electronic security procedures and signal security training; prepares signal security monitoring cover plan; analyzes the signal output of communications and noncommunications equipment to establish methods of operations, cryptonetting, and other types of intelligence; reviews documents for signal security; plans and supervises electronic security support; schedules signal security operational activities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 15 or more persons; determines needed signal intelligence support; presents oral reports to commanders on operational security principles; plans signal security actions to support the operational security plan; serves as advisor to commanders on signal security matters; plans and conducts classes on signal security activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as signal security operations chief, first sergeant of a company, or signal security chief; supervises 50-300 persons; has experience as the enlisted commander of a detachment; develops and writes signal security doctrine; advises commander and manages signal security personnel; plans career progression training; allocates personnel; advises commander and manages signal security equipment resources; plans and carries out signal security missions; advises generals and high-level government officials on signal security activities.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 2 in written communication skills, 2 in oral communication skills, 2 in electronic systems operations, and 1 in office practices, for a minimum total of 10 semester hours. *If the duty position was Communications Security Specialist,* use the following recommendation: In the vocational certificate category, 3 semester hours in typing, 3 in written communication skills, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in written communication skills, 3 in oral communication skills, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics for a total of 18 semester hours. *If the duty position was Senior Communications Security Specialist,* use the following recommendation: In the vocational certificate category, 4 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 22 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in management (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communications skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 for an internship in education (6/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 for an internship in education, for a total of 15 semester hours (6/77).

MOS-05G-002

SIGNAL SECURITY SPECIALIST

05G10
05G20
05G30
05G40
05G50

Exhibit Dates: 3/77-Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises and conducts signal security operations throughout the Army; monitors and analyzes communications signals; performs electronic security inspections; reviews documents for adequacy of security; prepares comprehensive written reports and makes oral presentations. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Performs transcription, monitoring, and basic analysis of radiotelephone and conventional telephone messages to detect communications security discrepancies and violations; reviews communications, electronic signal instructions, communications electronic operating instructions, and operations plans and orders to determine adequacy of communications security; reads and interprets maps and map overlays; prepares basic reports on signal security activities; operates and performs user maintenance on communications security and monitoring equipment; selects sites for, erects, and orients tactical antennas; selects and uses commercial battery and generator power; performs general office duties such as filing, typing (35 words per minute minimum), preparation of reports, and record keeping; presents oral reports concerning communications security activities. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as team chief, supervising 2-5 persons; provides basic signal security advice and assistance to commanders and performs security analysis of security codes; establishes and supervises operating sites; writes reports, including statistical analyses, and presents oral reports on data collected; makes recommendations to eliminate disclosures of intelligence information; provides advice and assistance concerning cryptographic systems and the interpretation of basic documents and regulations; determines need for written communication security instructions; prepares special, periodic, and project reports on signal security activities. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of 10-12 persons; provides advice and assistance on electronic security procedures and signal security training; prepares signal security monitoring cover plan; analyzes the signal output of communications and noncommunications equipment to establish methods of operations, cryptonetting, and other types of intelligence; reviews documents for signal security; plans and supervises electronic security support; schedules signal security operational activities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises 15 or more persons; determines needed signal intelligence support; presents oral reports to commanders on operational security principles; plans signal security actions to support the operational security plan; serves as advisor to commanders on signal security matters; plans and conducts classes on signal security activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as signal security operations chief, first sergeant of a company, or signal security chief; supervises 50-300 persons; has experience as the enlisted commander of a detachment; develops and writes signal security doctrine; advises commander and manages signal security personnel; plans career progression training; allocates personnel; advises commander and manages signal security equipment resources; plans and carries out signal security missions; advises generals and high-level government officials on signal security activities.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 2 in written communication skills, 2 in oral communication skills, 2 in electronic systems operations, and 1 in office practices, for a total of 10 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in typing, 3 in written communication skills, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in written communication skills, 3 in oral communication skills, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics for a total of 18 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 22 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in management (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 for an internship in education (6/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 for an internship in education, for a total of 15 semester hours (6/77).

MOS-05H-001

EW/Signal Intelligence Morse Interceptor

05H20

05H40

Exhibit Dates: 10/73-2/77.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates International Morse Code message interception and simple printer equipment and supervises the operation of such equipment in mobile or fixed installation for the purpose of detecting, identifying, and exploiting foreign communications. *NOTE:* Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. *Skill Level 20:* Operates Morse Code interception equipment, including radio receivers, special typewriters, teletypewriters, antenna-selection devices, internal communications at a minimum rate of 20 groups per minute; performs first-level analysis of messages to detect anomalies and suspect items which may be of intelligence interest; maintains operator's log of messages and related data and delivers messages to analysts for interpretation; performs operator maintenance on equipment; types at a minimum speed of 25 words per minute. *If duty position was Senior Morse Interceptor,* also performs the following duties: Performs more detailed message analysis and evaluation prior to forwarding messages to other analysts; writes detailed reports regarding intercepted messages; conducts on-the-job training; presents oral reports to high-level command staff. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Morse intercept activities; establishes and maintains extensive intercept files for messages and related data; assists in formulating unit deployment plans. *If duty position was Morse Operations Control Chief, Morse Operations Supervisor, or Morse Operations Shift Supervisor,* also performs the following duties: Allocates personnel and equipment resources; assists in designing collection strategies; may have experience as the enlisted commander of a detachment; establishes and supervises training programs; analyzes automatic data processing results and confers with computer programmers and analysts. *NOTE:* May have progressed to 05H40 from 05H30 or 05D30 (EW/Signal Intelligence Emitter Identifier/Locator).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations and 2 in typing. *If the duty position was Senior Morse Interceptor,* use the following recommendation: In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 1 in office practices, for a total of 8 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 16 semester hours. *If the duty position was Morse Operations Control Chief, Morse Operations Supervisor, or Morse Operations Shift Supervisor,* use the following recommendation: In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/79).

MOS-05H-002

EW/Signal Intelligence Morse Interceptor

05H10

05H20

05H30

05H40

Exhibit Dates: 3/77-Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates International Morse Code message interception and simple printer equipment and supervises the operation of such equipment in mobile or fixed installations for the purpose of detecting, identifying, and exploiting foreign communications. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Operates Morse Code interception equipment, including radio receivers, special typewriters, teletypewriters, antenna selection devices, internal communications equipment, and magnetic tape recorders; searches for, identifies, and manually records foreign International Morse Code communications at a minimum rate of 20 groups per minute; performs first-level analysis of messages to detect anomalies and suspect items which may be of intelligence interest; maintains operator's log of messages and related data and delivers messages to analysts for interpretation; performs operator maintenance on equipment; types at a minimum speed of 25 words per minute. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs more detailed message analysis and evaluation prior to forwarding messages to other analysts; writes detailed reports regarding intercepted messages; conducts on-the-job training; presents oral reports to high-level command staff. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises Morse intercept activities; establishes and maintains extensive intercept files for messages and related data; assists in formulating unit deployment plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; allocates personnel and equipment resources; assists in designing collection strategies; may have experience as the enlisted commander of a detachment; analyzes automatic data processing results and confers with computer programmers and analysts. *NOTE:* May have progressed to 05H40 from 05H30 or 05D30 (EW/Signal Intelligence Emitter Identifier/Locator).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations and 2 in typing (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 1 in office practices, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 16 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS-05K-001

EW/SIGNAL INTELLIGENCE NON-MORSE INTERCEPTOR

05K20
05K40

Exhibit Dates: 10/73-2/77.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates non-Morse communications intercept and recording equipment and supervises the operation of such equipment in mobile or fixed environments for the purpose of identifying and recording foreign radioteletype, facsimile, and data communications transmissions. *NOTE:* Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. *Skill Level 20:* Operates radioteletype, facsimile, and data intercept and recording equipment; knows basic AC and DC theory, circuit electronics theory, basic frequency analysis, spectrum analysis, and functional algebra; searches for, identifies, and records foreign transmissions; maintains a log of interceptions; prepares technical reports; types at a minimum rate of 25 words per minute; copies International Morse Code at a minimum of 15 groups per minute; performs operator maintenance on non-Morse intercept equipment; selects, erects, and orients tactical antennas. *If duty position was Senior Teletypewriter Interceptor,* also performs the following duties: Assists in the establishment of operational sites; maintains the technical data base to support collection operations; employs special electronic equipment for complex signal analysis; analyzes intercepted communications for items of intelligence interest; understands computer usage in the interpretation of intercepted messages; prepares detailed reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises non-Morse intercept activities; allocates equipment and personnel resources; writes extensive reports to accurately provide intelligence information; analyzes long-term trends, using statistical analysis techniques; coordinates interaction with other collection and processing activities; conducts on-the-job training. *If duty position was Teletypewriter Operations Shift Supervisor (paygrade E-7),* also performs the following duties: Supervises non-Morse intercept activities; interprets signal intelligence collection priorities; ensures proper handling of intelligence information; assesses procedures and operations for adequacy in meeting intelligence requirements and recommends changes; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in introduction to automatic data processing equipment, for a total of 8 semester hours. *If the duty position was Senior Teletypewriter Interceptor* use the following recommendation: In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 1 in office practices, for a total of 12 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 20 semester hours. *If the duty position was Teletypewriter Operations Supervisor (paygrade E-7), or Teletypewriter Operations Shift Supervisor (paygrade E-7),* use the following recommendation: In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/79).

MOS-05K-002

EW/SIGNAL INTELLIGENCE NON-MORSE INTERCEPTOR

05K10
05K20
05K30
05K40

Exhibit Dates: 3/77-Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates non-Morse communications intercept and recording equipment and supervises the operation of such equipment in mobile or fixed environments for the purpose of identifying and recording foreign radioteletype, facsimile, and data communications transmissions. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Operates radioteletype, facsimile, and data intercept and recording equipment; knows basic AC and DC theory, circuit electronics theory, basic frequency analysis, spectrum analysis, and functional algebra; searches for, identifies, and records foreign transmissions; maintains a log of interceptions; prepares technical reports; types at a minimum rate of 25 words per minute; copies International Morse Code at a minimum rate of 15 groups per minute; performs operator maintenance on non-Morse intercept equipment; selects, erects, and orients tactical antennas. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in the establishment of operational sites; maintains the technical data base to support collection operations; employs special electronic equipment for complex signal analysis; analyzes intercepted communications for items of intelligence interest; understands computer usage in the interpretation of intercepted messages; prepares detailed reports; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises non-Morse intercept activities; allocates equipment and personnel resources; writes extensive reports to accurately provide intelligence information; analyzes long-term trends, using statistical analysis techniques; coordinates interaction with other collection and processing activities; conducts on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises non-Morse intercept activities; interprets signal intelligence collection priorities; ensures proper handling of intelligence information; assesses procedures and operations for adequacy in meeting intelligence requirements and recommends changes; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in introduction to automatic data processing equipment, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 1 in office practices, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 20 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS-11B-001

INFANTRYMAN (LIGHT WEAPONS INFANTRYMAN)

11B10

11B20

11B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 111 (Infantry).

Description

Summary: Is a member of a unit which consists of 10–70 persons and which utilizes individual weapons and machine guns in offensive and defensive ground combat. *Skill Level 10:* Fires rifles and machine guns; utilizes camouflage to conceal weapons and personnel; assists in the construction of minor fortifications, roadblocks, wire entanglements, and minefields; prepares rough maps, sketches, and simple overlays; reads maps and aerial photographs; performs preventive maintenance on weapons and equipment; administers first aid. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates machine guns and hand-held antiaircraft weapons; uses grenade launchers. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, directing the utilization of personnel and equipment; supervises construction and maintenance activities; gives commands and makes oral reports; supervises the receipt, storage, and distribution of equipment, supplies, and food.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category: *If the duty assignment was team leader, section leader, squad leader, or team chief,* 3 semester hours for field experience in management; *if the duty assignment was duty sergeant, ammunition chief, or section chief,* 3 semester hours in public speaking and 6 for field experience in management; *if the duty assignment was instructor,* 3 semester hours in principles of instruction, 3 in public speaking, and 6 for field experience in management, for a total of 12 semester hours; *if the duty assignment was section sergeant,* 3 semester hours in office accounting, 3 in public speaking, 1 in inventory management, and 6 for field experience in management, for a total of 13 semester hours (2/75).

MOS-11B-002

INFANTRYMAN

11B10

11B20

11B30

11B40

11B50

Exhibit Dates: 9/75–2/78.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 111 (Infantry).

Description

Summary: Leads, supervises, and serves as a member of an infantry unit of 10–20 persons, employing individual weapons, machine guns, and anti-armor weapons in offensive and defensive ground combat. *Skill Level 10:* Uses individual infantry weapons; lays field wire; performs basic communications functions and operates communications equipment; utilizes camouflage to conceal weapons and personnel; constructs minor fortifications; performs land navigation; performs preventive maintenance on weapons, equipment, and some vehicles; makes verbal reports; administers first aid; operates wheeled vehicles to transport personnel, supplies, and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a team leader, directing deployment and employment of personnel; supervises maintenance and construction activities; reads, interprets, and collects intelligence information; distributes administrative and training documents; trains subordinate personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; as a first-line supervisor, directs the utilization of personnel and equipment; coordinates unit actions with adjacent and supporting elements; insures proper collection and reporting of intelligence data. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate units; supervises receipt, storage, and distribution of supplies, equipment, and food to subordinate units; provides oral and written reports; assists in production and administration of staff journals, files, records, and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer in an infantry company; assists in planning, coordinating, and supervising all company activities; advises superiors on all matters concerning subordinate personnel. NOTE: May have progressed to 11B50 from 11B40 or 11C40 (Indirect Fire Infantryman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in record keeping, 3 in human relations, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in human relations, 3 in record keeping, 3 in office administration, 3 in surveying, 3 for field experience in management, and 1 in first aid for a total of 19 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in office administration, 4 in record keeping, 6 in human relations, 3 in surveying, 3 in introduction to management, 3 for field experience in management, and 1 in first aid, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (11/75).

MOS-11B-003

Infantryman

11B10
11B20
11B30
11B40
11B50

Exhibit Dates: 3/78–Present.

Career Management Field: 11 (Infantry).

Description

Summary: Leads, supervises, and serves as a member of an infantry unit of 10–20 persons, employing individual weapons, machine guns, and anti-armor weapons in offensive and defensive ground combat. *Skill Level 10:* Uses individual infantry weapons; lays field wire; performs basic communications functions and operates communication equipment; utilizes camouflage to conceal weapons and personnel; constructs minor fortifications; performs land navigation; performs preventive maintenance on weapons, equipment, and some vehicles; makes verbal reports; administers first aid; operates wheeled vehicles to transport personnel, supplies, and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a team leader, directing deployment and employment of personnel; supervises maintenance and construction activities; reads, interprets, and collects intelligence information; distributes administrative and training documents; trains subordinate personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; as a first-line supervisor, directs the utilization of personnel and equipment; coordinates unit actions with adjacent and supporting elements; insures proper collection and reporting of intelligence data. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and trains personnel in infantry operations and intelligence activities; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate units; supervises receipt, storage, and distribution of supplies, equipment, and food to subordinate units; provides oral and written reports; assists in production and administration of staff journals, files, records, and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer in an infantry company; assists in planning, coordinating, and supervising all company activities; advises superiors on all matters concerning subordinate personnel. NOTE: May have progressed to 11B50 from 11B40, 11C40 (Indirect Fire Infantryman), or 11H40 (Heavy Antiarmor Weapons Crewman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (6/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in record keeping, 3 in human relations, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (6/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in human relations, 3 in office administration, 3 in record keeping, 3 in surveying, 3 in principles of instruction, 3 for field experience in management, and 1 in first aid for a total of 22 semester hours (6/79).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in office administration, 4 in record keeping, 6 in human relations, 3 in surveying, 3 in introduction to management, 3 for field experience in management, 3 in principles of instruction, and 1 in first aid, for a total of 27 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (6/79).

MOS-11C-001

Indirect Fire Infantryman

11C10
11C20
11C30
11C40

Exhibit Dates: 9/75–2/78.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 111 (Infantry).

Description

Summary: Leads or serves as a member of a mortar squad, section, or platoon employing crew-served and individual weapons in offensive and defensive operations. *Skill Level 10:* Employs individual weapons; assists in construction of minor fortifications; performs minor maintenance on weapons, equipment, and wheeled and tracked vehicles; performs land navigation; measures horizontal and vertical angles; estimates ranges; computes firing data; administers first aid; collects and verbally reports tactical information using basic communications equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads mortar squad; supervises crew readiness; trains crew; supervises work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads mortar sections; supervises employment and deployment of personnel and equipment; conducts surveys to determine weapon location. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises mortar platoon; assists in planning, organizing, training, reporting, and coordinating activities of subordinate sections; supervises receipts, storage, and distribution of ammunition, supplies, equipment, and food.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in human relations, 3 in record keeping, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 in record keeping, 3 semester hours in human relations, 6 in office administration, 3 in record keeping, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 19 semester hours (11/75).

MOS-11C-002

Indirect Fire Infantryman

11C10
11C20
11C30
11C40

Exhibit Dates: 3/78–Present.

Career Management Field: 11 (Infantry).

Description

Summary: Leads or serves as a member of a mortar squad, section, or platoon employing crew-served and individual weapons in offensive and defensive operations. *Skill Level 10:* Employs individual weapons; assists in construction of minor fortifications; performs minor maintenance on weapons, equipment, and wheeled and tracked vehicles; performs land navigation; measures horizontal and vertical angles; estimates ranges; computes firing data; administers first aid; collects and verbally reports tactical information using basic communications equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads mortar squad; supervises crew readiness; trains crew; supervises work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads mortar section; supervises employment and deployment of personnel and equipment; conducts surveys to determine weapon location. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises mortar platoon; assists in planning, organizing, training, reporting, and coordinating activities of subordinate sections; supervises receipts, storage, and distribution of ammunition, supplies, equipment, and food.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (6/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in human relations, 3 in recordkeeping, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (6/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in human relations, 3 in office administration, 3 in recordkeeping, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 19 semester hours (6/79).

MOS-11D-001

ARMOR RECONNAISSANCE SPECIALIST

11D10
11D20
11D40
11D50

Exhibit Dates: 10/73-8/75.

Career Management Field: 11 (Maneuver Combat Arms), *Subfield* 112 (Armor).

Description

Summary: Leads or serves as a member of a scout squad or section intelligence staff section, scout or reconnaissance platoon, air cavalry team, or armored cavalry team. *Skill Level 10:* Under supervision, surveys large geographical areas for the purpose of analyzing concentrations of people, materiel, industries, and roads; provides information about transportation networks, communications capability, and mobility of area inhabitants; performs basic vehicle maintenance; drives various vehicles; knows basic voice radio communication procedures; does some technical report writing. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares situation maps and overlays; analyzes topographic maps; maintains records and files; operates more complex communications equipment; processes prisoners of war, captured documents, and materiel. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; supervises deployment of small armored units in reconnaissance and security operations; supervises maintenance of unit vehicles, weapons, and equipment; supervises unit communication operations; supervises the technical and tactical training of small armored units; writes reports and gives oral reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises armor intelligence operations at battalion, regiment, brigade, or comparable headquarters; interprets, analyzes, evaluates, and disseminates data about enemy personnel and materiel; supervises operations staff; serves as the principal enlisted assistant to the company commander; manages the activities of 200-250 persons. NOTE: May have progressed to 11D50 from 11D40 or 11E40 (Armor Crewman).

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (1/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing, 3 in public speaking, 3 for field experience in management, and 1 in management techniques, for a total of 10 semester hours (1/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 9 semester hours for field experience in management, 3 in public speaking, 3 in technical writing, 3 in office procedures, 3 in personnel management, 3 in management techniques, and 2 in introductory typing, for a total of 26 semester hours (1/75).

MOS-11D-002

ARMOR RECONNAISSANCE SPECIALIST

11D10
11D20
11D30
11D40

Exhibit Dates: 9/75-2/78. (Effective 3/78, MOS 11D was discontinued and its functions were incorporated into MOS's 19D (Cavalry Scout), 19G (Armor Reconnaissance Vehicle Crewman), and 19H (Armor Reconnaissance Vehicle Driver).)

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 112 (Armor).

Description

Summary: Leads or serves as a member of a scout squad or section, reconnaissance platoon, air cavalry team, or armored cavalry team, in support of security, reconnaissance, and combat armor operations. *Skill Level 10:* Surveys large geographical areas to determine population concentration, industries, terrain features, bridges, and transportation networks; performs operator maintenance on vehicles and preventive maintenance on weapons and communications equipment; administers first aid; drives tracked and wheeled vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; processes intelligence and operations data; prepares maps and overlays; analyzes topographical maps; performs liaison duties; maintains records; processes prisoners of war and captured documents and material. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, overseeing tactical development, training, and maintenance activities; assists in the collection, evaluation, and interpretation of intelligence data; assists in administrative matters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises armored cavalry or reconnaissance platoon; assists in planning, organizing, direction, training, coordinating, and reporting activities of subordinate sections; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, 3 in human relations, 3 in record keeping, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration, 3 in record keeping, 6 in human relations, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 19 semester hours (11/75).

MOS-11E-001

ARMOR CREWMAN

11E10
11E20
11E30
11E40
11E50

Exhibit Dates: 9/75-8/76.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 112 (Armor).

Description

Summary: Leads, supervises, or serves as a member of an armored activity, employing individual weapons, tanks, and/or armored combat vehicles in offensive and defensive operations. *Skill Level 10:* Uses individual weapons; performs operator maintenance on tanks, armored combat vehicles, and communications equipment; administers first aid; assists in minor fortification construction; operates wheeled and tracked vehicles; makes verbal reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as team leader; performs land navigation; determines ranges and prepares range cards; reads and interprets maps and aerial photos; reproduces, distributes, and files operations, intelligence, and administrative documents; trains subordinate personnel; leads ammunition supply section and supervises resupply operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, leading a tank crew or section or a security section; directs the deployment of subordinate personnel; evaluates terrain and selects targets; trains personnel; collects and reports intelligence data; supervises construction of fortifications, and equipment and vehicle maintenance; and controls execution of tactical missions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises armor platoon; processes operations and intelligence information; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food; assists in planning, organizing, training, and coordinating of subordinate sections. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is the principal noncommissioned officer in an armor company; supervises intelligence operations; advises company commander on all matters concerning enlisted personnel and the company mission; directs and coordinates company administration. NOTE: May have progressed to 11E50 from 11E40 or 11D40 (Armor Reconnaissance Specialist).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance.

In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in record keeping, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration, 3 in record keeping, 6 in human relations, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 19 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration, 3 in record keeping, 6 in human relations, 6 for field experience in management, 3 in surveying, and 1 in first aid, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (11/75).

MOS-11E-002

ARMOR CREWMAN

11E10
11E20
11E30
11E40
11E50

Exhibit Dates: 9/76–2/78. (Effective 3/78, MOS 11E was discontinued and its functions were incorporated into MOS 19E, M48-M60A1/A3 Armor Crewman; 19F, Tank Driver; 19G, Armor Reconnaissance Vehicle Crewman; 19H, Armor Reconnaissance Vehicle Driver; 19J, M60A2 Armor Crewman; and 12Z (Armor Senior Sergeant).)

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 112 (Armor).

Description

Summary: Leads, supervises or serves as a member of an armor activity employing individual weapons, tanks, light armored tracked vehicles, and armored combat vehicles. *Skill Level 10:* Uses individual weapons; performs operator maintenance on tanks, armored combat vehicles, and communications equipment; administers first aid; assists in construction of minor fortifications; operates wheeled and tracked vehicles; reads maps, marine charts, and photographs for reconnaissance and terrain analysis; operates special-purpose launching, lifting, and power winches. *Skill Level 20:* Able to perform the duties required for Skill Level 10; determines ranges and prepares range cards; operates firing controls and fire control systems; performs operator maintenance on fire control equipment; reproduces, distributes, and files operations, intelligence, and administrative documents; supervises ammunition resupply operations; interprets maps, aerial photographs, and operating diagrams; reads information on maps; identifies and selects targets; supervises demolition activities; lays and removes obstacles and barriers, including mines; supervises recovery of disabled vehicles and crew engaged in engineering and security duties; supervises and trains replacements. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads a tank crew or section or a security section; operates ranging equipment; coordinates actions of unit with adjacent or supporting units; supervises construction of hasty fortifications; insures that proper procedures are followed; insures collection and proper reporting of intelligence data; judges tide flow and estimates high water marks and types of offshore bottoms. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises replacement team or armor platoon; processes operations and intelligence information; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food; supervises and trains personnel in operations and intelligence activities; assists in training, administration, and communications; assists in production and administration of journals, files, records, and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises subordinate personnel holding MOS 11E or MOS 11D (Armor Reconnaissance Specialist); is principal noncommissioned officer in armor company or troop; supervises intelligence operations; plans, coordinates, and supervises activities pertaining to organization, training, combat operations, and combat intelligence activities. NOTE: May have progressed to 11E50 from 11E40 or 11D40 (Armor Reconnaissance Specialist).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance and 1 in first aid (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance, 3 in map reading, and 1 in first aid, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance, 3 in map reading, 3 for field experience in personnel supervision, and 1 in first aid, for a total of 10 semester hours (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance, 3 in map reading, 3 for field experience in personnel supervision, 3 in personnel supervision, 3 in human relations, and 1 in first aid, for a total of 16 semester hours (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance, 3 in map reading, 3 for field experience in personnel supervision, 3 in personnel supervision, 3 in human relations, 3 in record keeping, and 1 in first aid, for a total of 19 semester hours (11/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance, 3 in map reading, 3 for field experience in personnel supervision, 3 in personnel supervision, 3 in human relations, 3 in record keeping, 3 in office administration, and 1 in first aid, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 for field experience in management (11/77).

MOS-11H-001

HEAVY ANTIARMOR WEAPONS CREWMAN

11H10
11H20
11H30
11H40

Exhibit Dates: 3/78–Present.

Career Management Field: 11 (Infantry).

Description

Summary: Leads or serves as a member of heavy antiarmor crew-served vehicles squad, section, or platoon. *Skill Level 10:* Serves as a loader of a special ammunition weapon; fires weapon or drives the vehicle; prepares ammunition; exercises safety precautions and knows first-aid procedures; lays field wire, performs basic communications functions and operates communications equipment; performs preventive maintenance on vehicle, armament, and weapon fire control system; assists in clearing or breaching minefields or fortifications. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a vehicle crew commander, directing employment of personnel in field operations; evaluates terrain; selects emplacement locations and assigns target locations; supervises construction of fortifications; interprets maps and prepares field sketches; supervises crew training and various work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and leads an antiarmor section consisting of several vehicles; coordinates and supervises the employment of the section; supervises the receipt, storage, and distribution of food, supplies, and communication; coordinates firepower and advises on tactical situations; supervises maintenance program of all section vehicles and equipment; trains and instructs replacement personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning, organizing, and coordinating activities of subordinate sections and squads; assists in coordinating administrative matters, implementing training programs and communications activities; advises commander on employment of weapons systems.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid and 3 in map reading (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, and 3 in personnel supervision, for a total of 7 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in personnel supervision, and 3 in introduction to management, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

MOS-11Z-001

MANEUVER COMBAT ARMS SERGEANT

11Z50

Exhibit Dates: 9/75-2/78. (Effective 3/78, MOS 11Z was discontinued and its functions were incorporated into 11B50 (Infantryman) and 19Z50 (Armor Senior Sergeant).

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 110 (General).

Description

Serves as the principal noncommissioned officer in operations and intelligence sections or as the first sergeant at a combined arms headquarters at brigade or higher level; supervises senior noncommissioned officers performing the duties of 11B50 (Infantryman) or 11E50 (Armor Crewman); as an experienced mid-level manager, plans, coordinates, and supervises all activities pertaining to daily operations, training, and administrative activities of subordinate personnel. NOTE: May have progressed to 11Z50 from 11B50 or 11E50.

Recommendation

In the upper-division baccalaureate category, 15 semester hours in business administration and personnel management, 6 in human relations, and 3 for field experience in management, for a total of 24 semester hours (11/75).

MOS-12B-001

COMBAT ENGINEER

12B20
12B30
12B40

Exhibit Dates: 10/73-9/74.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Engages in construction and demolition activities. *Skill Level 20:* Uses hand tools and engineering tools; operates a dump truck; assists with excavation, earthmoving, rigging, and concrete work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; uses basic algebraic skills and physical principles; interprets maps; reads and interprets blueprints; writes technical reports; applies oral communication skills; has a broad knowledge of construction practices. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises teams of construction personnel. NOTE: May have progressed to 12B40 from 12B20, 12B30, or 12F40 (Combat Engineer Tracked Vehicle Crewman).

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in construction equipment operation (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in construction equipment operation, 6 in construction methods, 3 in algebra, 1 in applied physics, 1 in blueprint reading, and 2 in communication skills, for a total of 25 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 1 in applied physics, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, and 2 in communication skills, for a total of 15 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in construction equipment operation, 3 in algebra, 1 in applied physics, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision, for a total of 33 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 1 in applied physics, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision, for a total of 18 semester hours (2/75).

MOS-12B-002

COMBAT ENGINEER

12B10
12B20
12B30
12B40

Exhibit Dates: 10/74-8/76.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Engages in construction and demolition activities. *Skill Level 10:* Assists combat engineers, bridge and powered bridge specialists, atomic demolition munitions specialists, and combat engineer tracked vehicle crewmen in performance of duties; uses hand tools and engineering tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates a dump truck; assists with excavation, earthmoving, rigging, and concrete work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; acts as demolition expert. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises teams of construction and demolition personnel. NOTE: May have progressed to 12B40 from 12B20, 12B30, or 12F40 (Combat Engineer Tracked Vehicle Crewman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in hand tool operation (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in construction equipment operation and 3 in hand tool operation (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in demolition operations, 6 in construction equipment operation, and 3 in hand tool operation, for a total of 18 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in construction equipment operation, 9 in demolition operations, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision, for a total of 38 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, and additional credit in administration and in construction on the basis of institutional evaluation (12/75).

MOS-12B-003

COMBAT ENGINEER

12B10
12B20
12B30
12B40

Exhibit Dates: 9/76-Present.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Engages in vertical, road, and airfield construction, and rigging, bridging, and demolition activities. *Skill Level 10:* Assists combat engineers and bridge and powered-bridge specialists, in performance of duties; uses hand tools and engineering tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists with excavation, earthmoving, rigging, and concrete work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; acts as demolition expert. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises teams of construction and demolition personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in hand-tool operation (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in construction equipment operation and 3 in hand-tool operation (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in demolition operations, 6 in construction equipment operation, and 3 in hand-tool operation, for a total of 18 semester hours (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in construction equipment operation, 9 in demolition operations, 3 in hand-tool operation, 2 in geography (map interpretation, 3 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision, for a total of 38 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, and additional credit in administration and in construction on the basis of institutional evaluation (11/77).

MOS-12C-001

BRIDGE SPECIALIST

12C20
12C30
12C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Provides engineer bridging for streams and dry gaps. *Skill Level 20:* Assembles, erects, and disassembles floating and fixed prefabricated bridges; uses rigging techniques; operates rafts and ferries; uses and maintains hand tools. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates power boats; interprets maps; uses and maintains construction hand tools. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; supervises bridge construction and repair; interprets maps; determines bridge construction sites; provides work and material estimates; supervises the use of heavy construction equipment; prepares technical reports; supervises a minimum of 10 persons.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in bridge construction and 3 in use and maintenance of hand tools (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in bridge construction, 4 in use and maintenance of construction hand tools, and 4 in power boat operation, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods and 1 in blueprint reading (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 12 semester hours in bridge construction, 4 in use and maintenance of construction hand tools, 4 in power boat operation, 4 in construction methods, 3 in bridge maintenance, and 3 in construction supervision, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods, 3 in construction supervision, 1 in blueprint reading, 2 in geography (map interpretation), 2 in technical writing, 2 in communication skills, and 1 in applied physics, for a total of 17 semester hours (2/75).

MOS-12C-002

BRIDGE CREWMAN

12C10
12C20
12C30
12C40

Exhibit Dates: 9/76–Present.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Provides engineer bridging for streams and dry gaps. *Skill Level 10:* Assists in the assembly, erection, and disassembly of floating and fixed prefabricated bridges; uses and maintains hand tools; assists in rigging; prepares for operation and operates assault boats. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises rigging; performs as demolition expert. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates power boats; interprets maps; uses and maintains construction hand tools. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises bridge construction and repair; determines bridge construction sites; provides work and material estimates; supervises the use of heavy construction equipment; prepares technical reports; supervises a minimum of 10 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in construction hand-tool operation and maintenance (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in bridge construction and 3 in construction hand-tool operation and maintenance (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in bridge construction, 4 in construction hand-tool operation and maintenance, and 4 in power boat operation, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods and 1 in blueprint reading (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 12 semester hours in bridge construction, 4 in construction hand-tool operation and maintenance, 4 in power boat operation, 4 in construction methods, 3 in bridge maintenance, and 3 in construction supervision, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods, 3 in construction supervision, 1 in blueprint reading, 2 in geography (map interpretation), 2 in technical writing, 2 in communication skills, and 1 in applied physics, for a total of 17 semester hours (11/77).

MOS-12D-001

POWERED BRIDGE SPECIALIST

12D20
12D40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 12D was discontinued and its functions were incorporated into MOS 12C, Bridge Crewman.)

Career Management Field: 12 (Combat Engineering).

Description

Summary: Performs or supervises powered bridging and rafting support duties for stream and other wet gap crossing operations; duties are similar to those performed in operating and maintaining ferry boats, tug boats, buses, and heavy duty trucks. *Skill Level 20:* Operates boats, trucks, and heavy duty equipment; connects with other vehicles to form rafts and bridges; holds position with or without anchor; utilizes compasses, ranges, charts, tide and current tables to take bearings and soundings; couples and uncouples bridge units; employs rigging techniques; maintains tools. *Skill Level 40:* Able to perform the duties required for Skill Level 20; interprets blueprints, aerial photographs, maps, and operating diagrams; plans and draws working sketches of crossing points, launching areas, and approach road nets; determines stream flow, effect of stream velocities, high water marks, type of stream bottom, and safe load capacities of rafts and bridges; coordinates use of multiple units; inspects powered bridge components and equipment and supervises periodic and emergency maintenance; prepares technical reports on bridging and rafting activities; supervises powered bridge personnel.

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in boat operation, 3 in heavy equipment operation, and 3 in heavy equipment maintenance, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment operation and 1 in use and care of tools (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in heavy equipment (ferry boat, tug boat, truck, bus) operation, 4 in powered bridge construction, 4 in multiple unit management, 3 in heavy equipment maintenance, 2 in blueprint reading, and 2 in navigation, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in heavy equipment operation, 2 in navigation, 2 in powered bridge construction management, and 1 in use and care of tools, for a total of 10 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either bridge section sergeant or bridge platoon sergeant,* 3 semester hours for field experience in management (12/75).

MOS-12E-001

ATOMIC DEMOLITION MUNITIONS SPECIALIST

12E20
12E40

Exhibit Dates: 10/73–8/76.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Assembles, arms, disarms, disassembles, tests, monitors, and transports atomic demolition munitions. NOTE: Able to perform the duties required for 12B10 (Combat Engineer). *Skill Level 20:* Interprets aerial photographs and reads maps; prepares atomic demolition munitions for destruction, using conventional demolition materials; employs radiological accident and incident control procedures; handles classified material and employs security procedures; uses engineer handtools; performs combat engineering tasks and simple construction necessary in the employment of atomic demolition munitions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, serving as a squad or team leader or as a platoon sergeant; supervises atomic demolition munitions activities; interprets technical literature and instructs subordinates in the use of atomic demolition munitions equipment; enforces safety regulations; advises commander on the employment of the weapon and makes recommendations concerning technical improvements, safety procedures, and security; requisitions supplies and equipment; keeps files of related manuals and regulations; coordinates with other units on storage, security, and transportation of atomic demolition munitions and on communications procedures. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities and these duties were not evaluated.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in the use of hand tools and 1 in map reading (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in the use of hand tools and 1 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 for field experience in management, and 3 for field experience in education, for a total of 12 semester hours (6/76).

MOS-12E-002

Atomic Demolition Munitions (ADM) Specialist

12E10
12E20
12E30
12E40

Exhibit Dates: 9/76–Present.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Assembles, arms, disarms, disassembles, tests, monitors, and transports atomic demolition munitions (ADM). NOTE: Many of the duties required for this MOS involve highly classified materials, equipment and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Assists in assembling, arming, disarming, disassembling, testing, and monitoring of ADM; prepares ADM for transport; operates and maintains vehicles; inspects and repairs ADM, test equipment, training sets, tools, and related equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interprets aerial photographs and read maps; prepares ADM for destruction, using conventional demolition materials; employs radiological accident and incident control procedures; handles classified material and employs security procedures; uses engineering hand tools; performs combat engineering tasks and simple construction necessary in the employment of ADM. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises prefire, arming, disarming, firing, cancellation and emergency destruction procedures; supervises nuclear weapons transportation preparation, routing, and security; conducts briefings. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a first-line supervisor of ADM activities; interprets technical literature and instructs subordinates in the use of ADM equipment; enforces safety regulations; advises commander on the employment of the weapon and makes recommendations concerning operational improvements, safety procedures, and security; requisitions supplies and equipment; keeps files of related manuals and regulations; coordinates with other units on storage, security, and transportation of ADM and on communications procedures.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in hand-tool operation and maintenance (11/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in hand-tool operation and maintenance, and 1 in map reading (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in hand-tool operation and maintenance, 1 in map reading, and 3 in demolition operations, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in hand-tool operation and maintenance, 3 for field experience in personnel supervision, and 1 in map reading, for a total of 7 semester hours (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in hand-tool operation, 2 in map reading, 3 in demolition operations, and 2 in communication skills, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in hand-tool operation and maintenance, 3 for field experience in personnel supervision, 3 in personnel supervision, 3 in human relations, 3 in safety, 3 in nuclear surveillance monitoring, and 2 in map reading, for a total of 20 semester hours (11/77).

MOS-12F-001

Combat Engineer Tracked Vehicle Crewman

12F20
12F40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 12F was discontinued and its functions were incorporated into MOS 11E, Armor Crewman; in 9/79, MOS 12F was reinstituted—see MOS-12F-002).

Career Management Field: 12 (Combat Engineering).

Description

Summary: Commands or serves as a member of a combat engineer vehicle crew, an armored vehicle launched bridge crew, or a landing vehicle track crew. *Skill Level 20:* Operates combat engineer tracked vehicles over rough or smooth terrain, in sandy, swampy, and marshy areas, or in water; performs operator maintenance on vehicle and communication equipment; observes and reports targets and other combat information; reads compasses, maps, marine charts, and photographs for reconnaissance and terrain analysis and to establish locations; constructs field fortifications and utilizes camouflage; operates special purpose equipment, such as demolition guns, bridge launching mechanisms, mine clearing devices, lifting devices, and power winches; keeps required records and reports. NOTE: May have progressed to Skill Level 20 from 12B10 (Combat Engineer). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises activities of combat engineer platoons, squads, and crews equipped with tracked vehicles operating independently or with engineer amphibious assault units; judges tide flow and estimates high water marks and types of offshore bottoms; interprets military maps, aerial photographs, and operating diagrams; assists in the preparation of operations directives, reports, and records.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in operation of tracked construction equipment. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading or photographic interpretation (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 10 semester hours in operation of tracked construction equipment, 2 in equipment maintenance, 1 in records administration, and 1 in technical mathematics or physics, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading or photographic interpretation, 1 in records administration, and 2 in personnel supervision, for a total of 5 semester hours (12/75).

MOS-12F-002

Engineer Tracked Vehicle Crewman

12F10
12F20
12F30
12F40

Exhibit Dates: 9/79–Present. Pending evaluation.

MOS-12Z-001

Combat Engineer Senior Sergeant

12Z50

Exhibit Dates: 10/73–8/76.

Career Management Field: 12 (Combat Engineering).

Description

Serves as the principal noncommissioned officer of a combat engineer company, bridge company, or engineering section; capable of the management of personnel and activities in a civilian engineering/construction firm; assists in planning, supervising, and coordinating all company activities; advises company commander on all personnel matters; provides subordinate supervisors with instructions; inspects work; provides on-the-job training; prepares reports; has a prerequisite knowledge of engineering equivalent to an associate degree in engineering technology. NOTE: May have progressed to 12Z50 from Skill Level 40 of any MOS in the combat engineering career management field (12).

Recommendation

In the upper-division baccalaureate category, 12 semester hours in business administration, 6 in personnel supervision, and 6 for field experience in management, for a total of 24 semester hours (12/75).

MOS-12Z-002

Combat Engineering Senior Sergeant

12Z50

Exhibit Dates: 9/76–Present.

Career Management Field: T112 (Combat Engineer).

Description

Serves as principal noncommissioned officer of a combat engineer company, bridge company, or engineer staff section; serves as a bridge inspector, operations or intelligence noncommissioned officer; may advise higher headquarters, supported units, allied forces, Army Reserve units, and Army National Guard units; may serve as an instructor in a formal military school; capable of managing personnel and activities in a civilian engineering/construction firm; assists in planning, supervising, and coordinating all unit activities; advises commander on personnel, equipment, and technical matters; provides subordinate supervisors with instructions; plans and implements training programs; inspects work progress and enforces job specifications and safety standards; supervises maintenance of functional and project files; prepares correspondence, plans, orders, construction schedules, and reports; maintains equipment records; maintains technical publications. NOTE: May have progressed to 12Z50 from Skill Level 40 of any MOS in the combat engineering career management field (12).

Recommendation

NOTE: Has a prerequisite knowledge of engineering equivalent to an associate degree (30–40 semester hours, depending on general education requirements) in engineering technology. In the upper-division baccalaureate category, 3 semester hours in elements of construction management, 3 in management problems, 3 in records management, 3 in quality control, 3 in personnel supervision, 3 in supervision and leadership, and 6 for field experience in management, for a total of 24 semester hours (11/77).

MOS-13A-001

FIELD ARTILLERY BASIC (CANNONEER)

13A10

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 13A was discontinued and its functions were incorporated into 13B10, Field Artillery Crewman.)

Career Management Field: 13 (Field Artillery Cannon).

Description

Serves as a member of a gun crew, ammunition section, or security section; may be a data recorder, truck driver, or ammunition specialist; operates radios, field telephones, and power generating equipment; conducts circuitry tests; uses vernier scales; measures tolerances; performs preventive maintenance on vehicles, generators, and crew-served weapons.

Recommendation

Credit on the basis of institutional evaluation (2/75).

MOS-13B-001

FIELD ARTILLERY CREWMAN

13B10
13B20
13B30
13B40

Exhibit Dates: 10/73–8/76.

Career Management Field: 13 (Field Artillery Cannon).

Description

Summary: Serves in a field artillery unit; reads schematic diagrams; uses wire and radio communications equipment; services hydraulic systems. *Skill Level 10:* Serves as a data recorder, truck driver, or ammunition specialist; operates radios, field telephones, and power generating equipment; conducts circuitry tests; measures tolerances and uses vernier scales; performs preventive maintenance on vehicles, generators, and crew-served weapons. NOTE: Skill Level 10 (formerly 13A10, Field Artillery Basic) was not added to MOS 13B until 10/74. *Skill Level 20:* Under supervision, uses optical measuring devices, adjusts instruments to required tolerances, and performs preventive maintenance on vehicles; knows angular relationships of optical devices in both horizontal and vertical planes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; uses specialized precision tools; uses technical publications; has theoretical background in mechanics, hydraulics, electrical systems, and optical measurement instruments; performs organizational maintenance on wheeled and tracked vehicles, optical instruments, and hydraulic systems; diagnoses and repairs malfunctions. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; is a first-line supervisor for 8–15 persons; supervises the maintenance of vehicles, instruments, and equipment; prepares technical reports; coordinates record keeping; conducts on-the-job training; inspects the work of subordinates.

Recommendation, Skill Level 10

10/74–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in measurement and instrumentation, electronic communications, and applied mathematics on the basis of institutional evaluation (3/76).

Recommendation, Skill Level 20

10/73–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, and 1 in basic mathematics, for a total of 4 semester hours (3/76).

Recommendation, Skill Level 30

10/73–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, and 2 in hydraulics and mechanics, for a total of 8 semester hours (3/76).

Recommendation, Skill Level 40

10/73–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, 1 in personnel management, and 3 for an internship (management), for a total of 15 semester hours (3/76).

MOS-13B-002

CANNON CREWMAN

13B10
13B20
13B30
13B40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves in a field artillery unit; reads equipment placement and systems diagrams; uses wire and radio communications equipment; services hydraulic systems. *Skill Level 10:* Serves as security guard, cannoneer, vehicle driver, or ammunition specialist; operates radios, field telephones, and power generating equipment; conducts continuity tests; measures tolerances and uses vernier scales; uses metric notation; performs preventive maintenance on vehicles, generators, and crew-served weapons. *Skill Level 20:* Assists the section chief; uses optical measuring devices, adjusts instruments to required tolerances; supervises preventive maintenance on vehicles; knows angular relationships of optical devices in both horizontal and vertical planes; supervises transportation and use of ammunition. *Skill Level 30:* Serves as a section chief, supervising 10–14 persons; instructs in gunnery procedures; uses technical publications; has theoretical background in mechanics, hydraulics, electrical systems, and optical measurement instruments; supervises preventive maintenance on wheeled and tracked vehicles; assures adherence to safety procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a first-line supervisor for 12–45 persons; supervises the maintenance of vehicles, instruments, and equipment; prepares technical and personnel reports; coordinates record keeping; supervises on-the-job training; inspects the work of subordinates; assures compliance with safety procedures.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in communications systems operation and 1 for field experience in electromechanical and hydraulic maintenance, and additional credit in applied mathematics and in measurements and instrumentation on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 1 in communications systems operation, 1 for field experience in electromechanical and hydraulic maintenance, and 1 in measurements and instrumentation, for a total of 5 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic mathematics, 2 for field experience in electromechanical and hydraulic maintenance, 1 in communications systems operation, and 1 in measurements and instrumentation, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in communication skills, 2 in human relations, 2 in personnel supervision, 2 in basic mathematics, 2 for field experience in electromechanical and hydraulic maintenance, 1 in communications systems operation, and 1 in measurements and instrumentation, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in communication skills, 3 in human relations, 3 in personnel supervision, 2 in basic mathematics, 2 for field experience in electromechanical and hydraulic maintenance, 1 in communications systems operation, 1 in measurements and instrumentation, and 1 in safety procedures, for a total of 19 semester hours (4/77).

MOS-13C-001

TACFIRE OPERATIONS SPECIALIST

13C10
13C20
13C30
13C40

Exhibit Dates: 9/79–Present. Pending evaluation.

MOS-13E-001

FIELD ARTILLERY CANNON OPERATIONS/FIRE DIRECTION ASSISTANT

13E20
13E40

Exhibit Dates: 10/73–8/76.

Career Management Field: 13 (Field Artillery Cannon).

Description

Summary: Supervises or serves as a member of an operations and intelligence section, liaison section, forward observer party, fire support coordination element, or field artillery cannon fire direction center. *Skill Level 20:* Serves in a field artillery section as a member of a gun crew; plots target locations and constructs firing charts; uses specialized graphs and tables for computing firing locations, angles, corrections, and displacements; operates gun control and gun direction computer; reads maps and aerial photographs; assists in liaison activities with infantry and armor; operates chronograph and computes muzzle velocity; performs preventive maintenance on generators, communications equipment (wire and radio), vehicles, and gun direction computer. *Skill Level 40:* Able to perform the duties required for Skill Level 20; prepares situation maps; collects and consolidates data for fire control; prepares operations journal; assists in liaison activities with other units, armor, and infantry; determines target distance and azimuth, utilizing optical instruments, compass, maps, mil relation formula, and timing of sound; supervises operation and preventive maintenance of section equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, and 1 in basic mathematics, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, 1 in basic mathematics, and 1 in introduction to computer science, for a total of 5 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, and 1 in personnel supervision, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, 1 in personnel supervision, 3 for field experience in management, and 1 in introduction to computer science, for a total of 16 semester hours (3/76).

MOS-13E-002

CANNON FIRE DIRECTION/FIRE SUPPORT SPECIALIST

13E10
13E20
13E30
13E40

Exhibit Dates: 9/76–2/78.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as a member of a field artillery fire direction center, liaison section, operations section, or forward observer section. *Skill Level 10:* Uses graphs, tables, and maps for computing firing locations, angles, altitudes, corrections, and displacements; constructs firing charts; computes meteorological, registration, and muzzle velocity corrections; operates gun direction computer (FADAC) or chronograph; installs and operates field wire telephones and switchboards; operates radio transmitter/receiver and speech security equipment; operates and maintains vehicles, section equipment, and generators; maintains situation map, fire support records, reports, and overlays; uses optical instruments, mil relation formula, and data for firing weapons from standardized tables. *Skill Level 20:* Supervises operations within the section; computes firing data and transmits to firing units; computes data corrections; prepares status charts, target lists, and situation maps; participates in reconnaissance. *Skill Level 30:* Supervises computations, operations, and planning; maintains records and reports; processes fire support requests; recommends fire support means; supervises maintenance of equipment, vehicles, and generators. *Skill Level 40:* Supervises fire direction control operations; assists in preparing training schedules, fire support plans, and tactical operations plans; trains, supervises, and evaluates 8–12 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation in any of the following areas: applied mathematics, communications systems operation, measurements and instrumentation, map reading, and introduction to computer concepts (4/77).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic mathematics, 1 in communications system operation, 1 in map reading, and 1 in introduction to computer concepts, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 1 in communications systems operation, 1 in map reading, 1 in introduction to computer concepts, and 1 in personnel supervision, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic mathematics, 2 in map reading, 1 in communications systems operation, and 1 in introduction to computer concepts, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in personnel supervision, 2 in communication skills, 2 in human relations, 2 in basic mathematics, 2 in map reading, 1 in communications systems operation, and 1 in introduction to computer concepts, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in communication skills, 3 in human relations, 2 in basic mathematics, 2 in map reading, 1 in communications systems operation, 1 in introduction to computer concepts, and 1 in safety procedures, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 19 semester hours (4/77).

MOS-13E-003

CANNON FIRE DIRECTION SPECIALIST

13E10
13E20
13E30
13E40

Exhibit Dates: 3/78–Present.

Career Management Field: 13 (Field Artillery), *subfield* 133 (Field Artillery Fire Direction/Fire Support).

Description

Summary: Supervises or serves as a member of a field artillery fire direction center or operations section. *Skill Level 10:* Uses graphs, tables, and maps for computing firing locations, angles, altitudes, corrections, and displacements; constructs firing charts; computes meteorological, registration, and muzzle velocity corrections; operates gun direction computer (FADAC) or chronograph; installs and operates field wire telephones and switchboards; operates radio transmitter/receiver and speech security equipment; operates and maintains vehicles, section equipment, and generators; maintains situation map, fire support records, reports, and overlays; mil relation formula, and data for firing weapons from standardized tables. *Skill Level 20:* Computes firing data and transmits to firing units; computes data corrections; prepares status charts, target lists, and situation maps.

Skill Level 30: Supervises computations, operations, and planning; maintains records and reports; processes fire support requests; recommends fire support means; supervises maintenance of equipment, vehicles, and generators. *Skill Level 40:* Supervises fire direction control operations; assists in preparing training schedules, fire support plans, and tactical operations plans; trains, supervises, and evaluates 8-12 persons.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 1 in communications systems operation, 1 in measurements and instrumentation, 1 in map reading, and 1 in introduction to computer concepts, for a total of 6 semester hours (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic mathematics, 2 in map reading, 1 in communications systems operation, 1 in introduction to computer concepts, and 1 in measurements and instrumentation, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in personnel supervision, 2 in communication skills, 2 in human relations, 2 in basic mathematics, 2 in map reading, 1 in communications systems operation, 1 in introduction to computer concepts, and 1 in measurements and instrumentation, for a total of 16 semester hours (6/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in communication skills, 3 in human relations, 2 in basic mathematics, 2 in map reading, 1 in communications systems operation, 1 in introduction to computer concepts, 1 in safety procedures, and 1 in measurements and instrumentation, for a total of 20 semester hours. In the upper-division baccalaureate category, 2 semester hours in introduction to management and 3 for field experience in management (6/79).

MOS-13F-001

FIRE SUPPORT SPECIALIST

13F10
13F20
13F30
13F40

Exhibit Dates: 3/78-Present.

Career Management Field: 13 (Field Artillery), *subfield* 133 (Field Artillery Fire Direction/Fire Support).

Description

Summary: Supervises or serves as a member of a field artillery forward observer section, a company fire support team, or a fire support element at a battalion or higher level. *Skill Level 10:* Assists in locating targets and initiating requests for fire on them; uses optional instruments, laser rangefinders, night observation device and compass; installs field wire and telephone; operates radio transmitter/receiver and speech security equipment; uses graphs, tables and maps for computing target locations including altitudes, coordinates, vertical interval and distance; maintains fire support map, status charts, capability overlay, records of missions fired and visibility diagram/profile; operates and maintains vehicles, generators and other section equipment; performs patrol and land navigation duty. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs reconnaissance, both map and physical; selects observation post location, develops visibility and capability diagrams, orients maps using optical devices and compass, and establishes communications to support units; identifies, locates, computes data, and initiates fire on targets; adjusts artillery, mortar, naval, or aerial fire on targets; prepares fire support plans for offensive and defensive operations; capable of conducting night operations through use of night observation devices or by coordinated illumination techniques. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises, or assists in supervising, development of fire plans, coordination of fire support requests, and maintenance of records; processes and disseminates fire support information via written message format or by radio/telephone network; instructs and evaluates lower skill level personnel in work techniques and procedures; supervises maintenance of vehicles, communications and speech security equipment, and fire support instruments/equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, trains, and evaluates 8-12 persons; prepares and coordinates fire support plans with maneuver plan; recommends use and coordinated employment of fire support means for tactical operations; familiar with concepts and principles of employment of various munitions and fire support means including close air support and naval gunfire; assists in preparing operation orders or plans, including the fire support plan.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or the lower-division baccalaureate/associate degree category, 2 semester hours in map reading, 1 in communications systems operation, 1 in basic mathematics, and 1 in measurement and instrumentation, for a total of 5 semester hours (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in map reading, 1 in communications systems operation, 2 in basic mathematics, and 1 in measurement and instrumentation, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading, 2 in basic mathematics, 1 in communications systems operations, 1 in measurement and instrumentation, 2 in human relations, 2 in communication skills, and 2 in personnel supervision, for a total of 12 semester hours (6/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading, 2 in basic mathematics, 1 in communications systems operations, 1 in measurement and instrumentation, 2 in human relations, 3 in communication skills, 3 in personnel supervision, 1 in safety procedures, and 3 for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate degree category, 2 semester hours in introduction to management and 3 for field experience in management (6/79).

MOS-13W-001

FIELD ARTILLERY TARGET ACQUISITION SENIOR SERGEANT

13W50

Exhibit Dates: 9/76-Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Supervises intelligence activities in a field-artillery-cannon, rocket, missile, and target-acquisition activity; serves as the principal noncommissioned officer in a target-acquisition battery; coordinates target-acquisition collection activities; collects, interprets, analyzes, and evaluates intelligence and target-acquisition data; plots, records, and reports targets; reads and interprets maps and aerial photos; keeps situation maps, charts, and overlays; processes security clearances; maintains files and records; prepares reports. NOTE: May have progressed to 13W50 from 17B40 (Field Artillery Radar Crewman), 17C40 (Field Artillery Target Acquisition Specialist), 82C40 (Field Artillery Surveyor), or 93F40 (Field Artillery Meteorological Crewman).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in supervision and leadership, and 6 for field experience in management, and additional credit in map reading and aerial photo interpretation on the basis of institutional evaluation, for a minimum total of 12 semester hours (5/77).

MOS-13Y-001

CANNON/MISSILE SENIOR SERGEANT

13Y50

Exhibit Dates: 9/76-Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Supervises operations and fire support activities in a field artillery battalion or serves as the principal noncommissioned officer in a field-artillery-cannon, missile, or rocket battery; prepares and distributes maps, operational information, operation reports, and training material; participates in coordination and implementation of cannon, missile, or rocket operations, training programs, administrative matters, and communication activities; maintains staff journals, files, and records; prepares reports. NOTE: May have progressed to 13Y50 from 13B40 (Cannon Crewman), 13E40 (Cannon Fire Direction/Fire Support Specialist), 15D40 (Lance Missile Crewman), 15E40 (Pershing Missile Crewman), or 15J40 (Lance/Honest John Operations/Fire Direction Specialist).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in supervision and leadership, and 6 for field experience in management, for a total of 12 semester hours (5/77).

MOS-13Z-001

FIELD ARTILLERY SENIOR SERGEANT
(FIELD ARTILLERY CANNON SENIOR SERGEANT)

13Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 13 (Field Artillery).

Description

Serves as the principal noncommissioned officer in a major field artillery organization; supervises operations, intelligence activities, and liaison activities; assists superiors in planning, coordinating, and supervising all operations and personnel matters; holds meetings with subordinate noncommissioned officers to provide guidance and direction; directs on-the-job training; is a mid-level manager overseeing 45–150 persons. NOTE: May have progressed from 13B40 (Field Artillery Crewman), 13E40 (Field Artillery Cannon Operations/Fire Direction Assistant), 13W50 (Field Artillery Target Acquisition Senior Sergeant), or 13Y50 (Cannon/Missile Senior Sergeant).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, and 6 for field experience in management, and additional credit in public speaking and for an internship in education on the basis of institutional evaluation, for a minimum total of 15 semester hours (3/76, 4/77).

MOS-15B-001

SERGEANT MISSILE CREWMAN

15B10
15B20
15B30
15B40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missiles).

Description

Summary: Is familiar with the mechanical energy conversion, hydraulics, and pneumatic systems; understands both rocket and missile technology and the operation of missile guidance components, electrical subsystems, and communications systems as utilized in coordinated launch processes; operates mechanical equipment, optical devices, and gas turbine generators. *Skill Level 10:* Under supervision, assists in basic missile system operations, including receiving, handling, and assembling missile parts and components; uses radio and telephone communications equipment; tests and maintains equipment; operates gas turbine generator set. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates heavy equipment boom in handling and assembling major missile components; assists in operating the computer-firing set used in missile countdown and self-test procedures; checks out the guidance system, propulsion system, and electrical system; uses azimuth-orienting devices; understands and applies precision standards in optical measurement, mechanical tolerances, and computer-based self-test data prior to launch. *Skill Level 30:* Able to perform the duties required for Skill Level 20; can serve as the principle operator of an azimuth orientation unit, the test station equipment, or the firing set; conducts countdown procedures; coordinates communications between stations at the launch site; computes firing data. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; is a first-line supervisor for a minimum of 15 persons; supervises the operations of the missile system at the launch site; directs the emplacement and relocation of launch stations; coordinates assembling, inspecting, testing, and firing of the missiles; maintains equipment records; verifies computations and conversions of firing data and guidance system data.

Recommendation, Skill Level 10

Credit on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in measurements and instrumentation, 1 in rocket engines and guidance systems, and 1 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 4 semester hours (3/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronic circuits, 2 in measurement and instrumentation, 1 in management of equipment and personnel, 2 in rocket engines and guidance systems, and 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 9 semester hours (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronic circuits, 2 in measurement and instrumentation, 2 in management of equipment and personnel, 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), 2 in rocket engines and guidance systems, 2 in public speaking, and 3 for a practicum in management, for a total of 15 semester hours (3/75).

MOS-15B-002

SERGEANT MISSILE CREWMAN

15B10
15B20
15B30

Exhibit Dates: 9/76–9/78. (Effective 10/78, MOS 15B was discontinued.)

Career Management Field: 13 (Field Artillery), *subfield* 31 (Field Artillery Cannon/Missile Operations).

Description

Summary: Is familiar with the mechanical-energy-conversion, hydraulic, and pneumatic systems; understands rocket and missile technology and the operation of missile guidance components, electrical subsystems, and communications systems as utilized in coordinated launch processes; operates mechanical equipment, optical devices, and gas-turbine generators. *Skill Level 10:* Under supervision, assists in basic missile system operations, including receiving, handling, and assembling missile parts and components; uses radio and telephone communications equipment; participates in emplacement of azimuth-orienting equipment; tests and maintains equipment; operates gas turbine generator set. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in operating the computer-firing set used in missile countdown and self-test procedures; checks out the guidance system, propulsion system, and electrical system; uses azimuth-orienting devices; understands and applies precision standards in optical measurement, mechanical tolerances, and computer-based self-test data prior to launch; supervises receipt, storage, and preparation of ammunition for delivery to firing and missile test section; assists in supervising assembly and disassembly of the missile and emplacement of launcher. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief and first-line supervisor for 9–11 subordinates; serves as the principal noncommissioned officer in a unit of approximately 70 persons; supervises preparation for missile section tests, missile check-out, and preparation for travel; supervises work techniques, work distribution, and maintenance.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components, on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 2 for field experience in electromechanical and hydraulic maintenance, for a total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operations, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours (4/77).

MOS-15D-001

LANCE MISSILE CREWMAN

15D10
15D20
15D40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missile).

Description

Summary: Supervises or serves as a member of a Lance missile crew. *Skill Level 10:* Under supervision, assists in basic missile operations, including receiving, handling, and assembling missile components; uses radio and telephone communications equipment; performs operator maintenance and assists in routine maintenance of equipment, missiles, weapons, and vehicles; operates gas turbine generator set. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates heavy equipment boom in handling and assembling major missile components; assists in operating the computer firing set used in missile countdown and self-test procedures; is familiar with the mechanical technology of guided missiles, including thrust propulsion, energy conversion, hydraulics, and pneumatic systems; checks out the guidance, propulsion, and electrical missile systems; uses azimuth orienting devices; applies precision standards in optical measurement and mechanical tolerances. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor for 10 or more persons; supervises missile operations at the launch site, coordinating the assembly, inspection, testing, and firing of missiles; establishes and maintains equipment records; verifies computations and conversion of firing data and guidance system data; directs the emplacement and relocation of launch stations.

Recommendation, Skill Level 10

In the vocational certificate category, credit in heavy equipment operation and maintenance and in surveying on the basis of institutional evaluation (3/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 1 semester hour in measurements and instrumentation, 1 in missile guidance and propulsion systems, and 1 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 3 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in measurements and instrumentation, 2 in guidance and propulsion systems, 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), 3 in human relations, 1 in public speaking, and 3 for field experience in management, for a total of 13 semester hours (3/76).

MOS-15D-002

LANCE MISSILE CREWMEMBER
(LANCE MISSILE CREWMAN)

15D10
15D20
15D30
15D40

Exhibit Dates: 9/76-Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as a member of Lance missile crew, or supervises Honest John rocket firing battery or Sergeant missile crew. *Skill Level 10:* Participates in positioning, emplacement, assembly, and preparation of Lance missile for firing; operates missile-handling equipment; performs maintenance on equipment, missiles, weapons, carrier, unit vehicles, and communications equipment; operates gas-turbine generator set; uses radio and telephone communication equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists section chief in firing or assembly and transport section and serves as section chief in ammunition or security section; operates heavy-equipment boom in handling and assembling major missile components; assists in supervision of receipt, storage, handling, assembly, and transporting missile to firing section; uses azimuth-orienting devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises preparation of launcher and missile for firing; supervises receipt, storage, handling, assembly, mating, movement, and firing of missile; serves as section chief and first-line supervisor for 9-11 subordinates; supervises work techniques, work distribution, and maintenance; supervises maintenance of missiles and section equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as first-line supervisor for 11 or more persons; directs positioning, emplacement, and employment of firing sections; establishes and maintains equipment records; verifies computations and conversion of firing data and guidance system data; reviews and prepares technical, personnel, administrative, and readiness reports on unit activities. *NOTE:* May have progressed to 15D40 from 15D30, 15B30 (Sergeant Missile Crewman), or 15F30 (Honest John Rocket Crewman).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 2 for field experience in electromechanical and hydraulic maintenance, for a total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 3 in communication skills (oral and written), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in safety procedures, for a total of 19 semester hours (4/77).

MOS-15E-001

PERSHING MISSILE CREWMAN

15E10
15E20
15E30
15E40

Exhibit Dates: 10/73-8/76.

Career Management Field: 15 (Field Artillery Missile).

Description

Summary: Supervises or serves as a member of a Pershing missile crew. *Skill Level 10:* Under supervision, assists in basic missile system operations, including receiving, handling, and assembling missile components; uses radio and telephone communications equipment; operates gas turbine generator set; operates wrecker boom and tracked vehicles; performs operator maintenance on wheeled vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates equipment necessary to position launch vehicles and to assemble missiles; installs and monitors special equipment; operates erector-launcher control panel; operates power station to provide electrical power and pressurized air for the missile system; performs operator maintenance on system equipment; is familiar with the mechanical technology of guided missiles, including thrust propulsion, energy conversion, hydraulics, and pneumatic systems; operates optical devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; applies precision standards in optical measurement and mechanical tolerances; connects and operates computerized missile launch control system; aligns missile guidance platform on the firing azimuth; positions, assembles, and levels theodolite. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor for 11 or more persons; supervises missile operations at the launch site, coordinating the assembly, inspection, testing, and firing of missiles; directs the emplacement and relocation of launch stations; establishes and maintains equipment records; verifies computations and conversions of firing data and guidance system data; coordinates liaison activities.

Recommendation, Skill Level 10

In the vocational certificate category, credit in heavy equipment operation and maintenance and in surveying on the basis of institutional evaluation (3/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 1 semester hour in measurements and instrumentation, 1 in missile guidance and propulsion systems, and 1 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 3 semester hours (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in measurements and instrumentation, 2 in guidance and propulsion systems, and 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 6 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for

Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in measurements and instrumentation, 2 in guidance and propulsion systems, 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), 3 in human relations, 1 in public speaking, and 3 for field experience in management, for a total of 13 semester hours (3/76).

MOS-15E-002

Pershing Missile Crewmember
(Pershing Missile Crewman)

15E10
15E20
15E30
15E40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as a member of a Pershing missile crew. *Skill Level 10:* Under supervision, assists in launcher emplacement and receipt, assembly, disassembly, transporting, and storing of missile and missile components; uses radio and telephone communications equipment; operates gas-turbine generator set; operates wrecker boom and tracked vehicles; performs maintenance on vehicles and field communications equipment; participates in emplacement and operation of azimuth reference unit. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates equipment necessary to position launch vehicles and to assemble missiles; installs and monitors special equipment; operates erector launcher control panel during mating, recovery, and firing operations; is familiar with the mechanical technology of guided missiles, including thrust propulsion, energy conversion, hydraulics, and pneumatic systems; supervises operations performed by missile handlers while drawing, transporting, and storing missiles and components; assists in supervising crew during missile prefire, firing, postfiring, assembly, and disassembly operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief and first-line supervisor for 9-11 subordinates; supervises emplacement and preparation of missile for firing; supervises work techniques, work distribution, and maintenance; supervises positioning and operation of azimuth-laying equipment or azimuth reference unit; supervises missile storage, maintenance, assembly, disassembly, and firing procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a first-line supervisor for 11 or more persons; supervises operation of firing, ammunition, or security platoon or battery control central section; supervises procurement, distribution, and testing of missile and missile components; serves as principal noncommissioned officer; prepares operation reports; participates in coordination and implementation of Pershing missile operations, training programs, administrative matters, and communications activities.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 2 for field experience in electromechanical and hydraulic maintenance, for a total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 3 in communication skills (oral and written), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in safety procedures, for a total of 19 semester hours (4/77).

MOS-15F-001

Honest John Rocket Crewman

15F10
15F20
15F40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missiles).

Description

Summary: Is familiar with precision standards of mechanical and electrical systems of rocketry and with processes and procedures for launch and communications systems/equipment necessary for coordination of activities; operates optical and electrical test devices such as anemometer, multimeter, micrometer aiming circle, and panoramic telescopes; knows procedures for receiving, transporting, assembling, and loading rocket or launcher; knows procedure for tests of circuitry; performs maintenance on generators, vehicle, launcher, and allied equipment associated with preparation of rockets for launching. *Skill Level 10:* Under supervision, assists in receiving, storing, handling, assembling, and inspecting rocket components; assists in emplacing launcher with associated launch equipment and accessories; understands and uses communications equipment (telephone and radio), test instruments, electronic instruments; performs electrical circuitry tests; maintains vehicles and launch equipment; understands mechanics of rocket power and thrust. *Skill Level 20:* Able to perform the duties required for Skill Level 10; does some troubleshooting; is familiar with optical as well as electronic measuring instruments and tolerances (or precision). *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor for 5-11 subordinates; coordinates receiving, handling, and assembly of rockets; coordinates loading and inspection operations; serves as gunner at each launching; serves as a principal noncommissioned officer in a unit of approximately 70 persons.

Recommendation, Skill Level 10

Credit on the basis of institutional evaluation (1/75).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in electronic communications operations, and 1 in measurements and instrumentation, for a total of 4 semester hours (1/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in management internship experience, 2 in basic electronic circuits, 2 in rocket engines and components, 2 in measurements and instrumentation, 2 in equipment management or personnel management, and 2 in public speaking, for a total of 13 semester hours (1/75).

MOS-15F-002

Honest John Rocket Crewmember
(Honest John Rocket Crewman)

15F10
15F20
15F30

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Is familiar with precision standards of mechanical and electrical systems of rocketry and with processes and procedures for launch and communications systems/equipment necessary for coordination of activities; operates optical and electrical test devices such as anemometer, multimeter, micrometer aiming circle, and panoramic telescope; knows procedures for receiving, transporting, assembling, and loading rocket or launcher; knows procedure for tests of circuitry; performs maintenance on generators, vehicle, launcher, and allied equipment associated with preparation of rockets for launching. *Skill Level 10:* Under supervision, assists in receiving, storing, handling, assembling, and inspecting rocket components; assists in emplacing launcher with associated launch equipment and accessories; understands and uses communications equipment (telephone and radio), test instruments, and electronic instruments; performs electrical circuitry tests; maintains vehicles and launch equipment; understands mechanics of rocket power and thrust. *Skill Level 20:* Able to perform the duties required for Skill Level 10; does some troubleshooting; is familiar with optical as well as electronic measuring instruments and tolerances (or precision); serves as gunner for each launching; performs supervisory function in maintaining launcher, windset, handling equipment, and warhead test equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief and first-line supervisor of 9-11 persons; supervises emplacement and firing of rocket; supervises work techniques, work distribution, and maintenance; coordinates receiving, handling, and assembly of rockets; coordinates loading and prefire inspection operations; serves as principal noncommissioned officer in a unit of approximately 70 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components, on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower/division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 3 for field experience in electromechanical and hydraulic maintenance, for a total of 7 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 3 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 16 semester hours (4/77).

MOS-15J-001

Lance/Honest John Operations/Fire Direction Assistant

15J20

15J40

Exhibit Dates: 10/73-8/76.

Career Management Field: 15 (Field Artillery Missile).

Description

Summary: Supervises or serves as a member of a Lance/Honest John missile crew. *Skill Level 20:* Collects and evaluates observer data for fire control; uses specialized charts and tables to compute firing data; plots targets and computes range, altitude, and azimuth; reads and prepares maps; performs operator maintenance on gun direction computer, desk calculators, generators, communications equipment (wire and radio), and vehicles. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises all operations of fire direction activity to insure proper computations and data evaluations; performs liaison activities for collection and dissemination of missile firing data.

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, and 1 in basic mathematics, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, 1 in basic mathematics, and 1 in introduction to computer science, for a total of 5 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, and 1 in personnel supervision, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, 1 in personnel supervision, 3 for field experience in management, and 1 in introduction to computer science, for a total of 16 semester hours (3/76).

MOS-15J-002

Lance/Honest John Operations/Fire Direction Specialist

15J10

15J20

15J30

15J40

Exhibit Dates: 9/76-Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as member of a Lance or Honest John missile crew. *Skill Level 10:* Assists in computation of firing data; reads and prepares maps; operates and maintains fire direction center communications equipment and vehicles; participates in the gathering of operations and intelligence data; participates in operations and liaison activities. *Skill Level 20:* Able to perform the duties required for Skill Level 10; computes firing data; plots targets and computes range, altitudes, and azimuth to target; operates and performs maintenance on gun direction computer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in supervision of all operations of the fire direction center; performs liaison activities, including collection and transmission of data. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operations of fire direction center to insure proper computations, plotting of targets, and issuance of fire commands; plans and organizes work schedules; instructs subordinate personnel in techniques and procedures in computation of firing data; reviews and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, and 1 for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components on the basis of institutional evaluation, for a minimum total of 2 semester hours (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, 1 for field experience in electromechanical and hydraulic maintenance, 1 in measurement and instrumentation, 1 in communications systems operation, 1 in basic mathematics, and 1 in introduction to computer concepts, and credit in electronic circuits on the basis of institutional evaluation, for a minimum total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for skill level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, 1 for field experience in electromechancial and hydraulic maintenance, 1 in measurement and instrumentation, 1 in communications systems operation, 1 in basic mathematics, 1 in introduction to computer concepts, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, and credit in electronic circuits on the basis of institutional evaluation, for a minimum total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, 1 for field experience in electromechanical and hydraulic maintenance, 1 in measurement and instrumentation, 1 in communications systems operation, 1 in basic mathematics, 1 in introduction to computer concepts, 3 in communication skills (oral and written), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in safety procedures, and credit in electronic circuits on the basis of institutional evaluation, for a minimum total of 19 semester hours (4/77).

MOS-15Z-001

Field Artillery Missile/Rocket Senior Sergeant

15Z50

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 15Z was discontinued and its functions were incorporated into Skill Level 50 of MOS 13W, Field Artillery Target Acquisition Senior Sergeant, MOS 13Y, Cannon/Missile Senior Sergeant, or MOS 13Z, Field Artillery Senior Sergeant).

Career Management Field: 15 (Field Artillery Missile).

Description

NOTE: Able to perform the duties of Skill Level 40 in any MOS in career management field 15. Serves as the principal noncommissioned officer in a field artillery missile unit; supervises operations, intelligence activities, and liaison activities; assists superiors in planning, coordinating, and supervising all unit activities and personnel matters; is a mid-level manager who supervises 45-150 persons; directs on-the-job training; holds meetings with subordinate noncommissioned officers to provide guidance and direction.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, and 6 for field experience in management, and additional credit in public speaking and for internship in education on the basis of institutional evaluation, for a minimum total of 15 semester hours (3/76).

MOS-16B-001

Hercules Missile Crewmember

16B10
16B20
16B40

Exhibit Dates: 10/73-8/75.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile Operations).

Description

Summary: Engages in launching activities of surface-to-air missiles. *Skill Level 10:* Under supervision, participates in the emplacement and displacement of missile launchers and associated equipment; checks missile components and related equipment; assists in assembling the rocket and attaching it to the launcher; performs the duties of switchboard operator; knows safety precautions necessary for working with high voltage potentials and propellants. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under supervision, participates in pre-fire checks and adjustments to missiles; assists in testing, adjusting, and replacing defective components; performs preventive maintenance on missile, launching equipment, handling equipment, transport trailers, light vehicles, and power equipment; assists in receiving, unpacking, inspecting, assembling, and storing explosive heads and related equipment. (Possible duty assignments include assembly crewman, fire panel operator, launcher crewman, senior launcher crewman, and senior assembly crewman.) *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a launching section or platoon; directs the emplacement and displacement of missile launcher and related equipment; supervises the preparation and orientation of the missile for launching; enforces safety precautions; supervises low-level maintenance of launchers and related equipment; interprets technical material for subordinate personnel.

Recommendation, Skill Level 10

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate-associate degree category, 1 semester hour in electronic test equipment, 2 in introduction to electric circuits, and 3 for field experience in management, for a total of 6 semester hours *only if the duty assignment was either senior launcher or senior assembly crewman* (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic test equipment, 3 in introduction to electric circuits, 3 in basic electronic circuits, and 6 for field experience in management, for a total of 14 semester hours (2/75).

MOS-16B-002

Hercules Missile Crewmember (Hercules Missile Crewman)

16B10
16B20
16B30
16B40

Exhibit Dates: 9/75-Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Engages in launching activities of surface-to-air missiles. *Skill Level 10:* Under supervision, assembles, prepares, and maintains Nike-Hercules missile for launching; participates in the emplacement and displacement of missile launchers and associated equipment; checks missile components and related equipment; assists in assembling the rocket and attaching it to the launcher; performs the duties of switchboard operator; knows safety precautions necessary for working with high voltage potentials and propellants. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; assists in testing, adjusting, and replacing defective components; performs preventive maintenance on missile, launching equipment, handling equipment, transport trailers, light vehicles, and power equipment; assists in receiving, inspecting, assembling, transporting, and storing explosive warheads and related equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises launching section operations in a Nike-Hercules missile battery; reads and interprets technical material pertaining to missile components and related equipment; supervises crew training and preventive maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises launch fire control platoon operations in a Nike-Hercules missile battery; is a first-line supervisor of a launching platoon; directs the emplacement and displacement of missile launcher and related equipment; supervises the preparation and orientation of the missile for launching; enforces safety precautions. NOTE: May have progressed to 16B40 from 16B30 or 16C30 (Hercules Fire Control Crewman).

Recommendation, Skill Level 10

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in introductory electronics and additional credit in mechanical maintenance on the basis of institutional evaluation. In an electronic technician apprentice training program, 100 clock hours of experience and 20 contact hours of related instruction (2/76).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in introductory electronics and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 1 in introductory electronics, and additional credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 4 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in introductory electronics and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 for field experience in management, 1 in introductory electronics, and additional credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 10 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-16C-001

Hercules Fire Control Crewmember (Hercules Fire Control Crewman)

16C10
16C20
16C30

Exhibit Dates: 9/75-Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Engages in fire control activities of surface-to-air missiles. *Skill Level 10:* Operates fire control equipment and associated test equipment for Nike-Hercules missiles; performs preventive maintenance on radars, automatic data transmission systems, and associated power supply equipment; makes basic adjustments and corrects simple malfunctions of fire control equipment; recognizes various types of jamming and employs electronic counter-countermeasure procedures; exercises safety precautions when working around high voltage potentials. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises over 20 persons in a fire control section; interprets intelligence information; reviews logs containing operating data; enforces safety precautions and security requirements; supervises maintenance; directs on-the-job training.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

MOS-16D-001

Hawk Missile Crewmember (Hawk Missile Crewman)

16D10
16D20
16D30
16D40

Exhibit Dates: 9/75-Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Serves as a member of or supervises the operation of a firing platoon, an assembly section, or a service and maintenance section of a Hawk missile battery. *Skill Level 10:* Maintains and prepares Hawk missile and associated equipment for launching; participates in the unloading and emplacement of equipment; assists in assembling, arming, and disarming the missile; performs routine preventive maintenance on launch and handling equipment; assists in performing checks and adjustments; observes safety precautions. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the assembly, testing, arming, disarming, loading, and unloading of Hawk missiles; supervises the transportation and emplacement of equipment; supervises preventive maintenance and coordinates organizational maintenance of launch and loading equipment. *Skill Level 40:* Able to perform the duties required for 16D30 or 16E30 (Hawk Fire Control Crewman); serves as platoon sergeant, supervising over 20 persons; plans and organizes security arrangements; interprets intelligence information; supervises maintenance of equipment.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems (2/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS-16E-001

HAWK FIRE CONTROL CREWMEMBER
(HAWK FIRE CONTROL CREWMAN)

16E10
16E20
16E30

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Serves as a member of or supervises a command and acquisition or a firing section of a Hawk firing platoon. *Skill Level 10:* Operates fire control equipment or engagement simulator; operates and performs operator maintenance checks and adjustments on Hawk missile fire control equipment; observes safety precautions. *Skill Level 20:* Performs the duties required for Skill Level 10 (with the exception of operating engagement simulator) and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises approximately 10 persons operating Hawk fire control equipment; prepares radar coverage and clutter diagrams; determines known reference point; supervises moving and placement of equipment.

Recommendation, Skill Levels 10 and 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

MOS-16F-001

LIGHT AIR DEFENSE ARTILLERY
CREWMAN (RESERVE FORCES)

16F10
16F20
16F30
16F40

Exhibit Dates: 10/73–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a member of a light air defense artillery automatic weapons, machinegun, or ammunition platoon, section, or squad. *Skill Level 10:* Loads ammunition and fires automatic weapons; operates computing sight; operates communications equipment; performs operator maintenance on automatic weapons; requisitions, receives, stores, and distributes ammunition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads air defense artillery automatic weapons squad of approximately 10 persons; serves as assistant ammunition sergeant. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and coordinates the activities of subordinate squads; assures that operator maintenance standards are attained. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the operations of an automatic weapons platoon of approximately 30 persons.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS-16H-001

AIR DEFENSE ARTILLERY (ADA)
OPERATIONS AND INTELLIGENCE
ASSISTANT

16H10
16H20
16H30
16H40

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 162 (Air Defense Artillery Operations and Intelligence).

Description

Summary: Supervises or serves as a member of an air defense artillery activity engaged in operations or intelligence functions to prepare and revise operations data and situation maps. *Skill Level 10:* Performs plotting and operations or intelligence duties in an air defense artillery unit; plots, reports, and records operations or intelligence information by preparing charts, overlays, strip maps, training aids, logs, reports, and correspondence; installs and operates field telephone equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; collects and consolidates information from related units; prepares training materials and coordinates training activities; transmits intelligence and grid locations to other units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations; demonstrates correct procedures and techniques; supervises the preparation of situation maps and overlays; coordinates operations and intelligence data; supervises operation of communications equipment. *Skill Level 40:* Able to perform the duties required for 16H30 or 16J30 (Defense Acquisition Radar Operator); as a first sergeant, supervises 20 or more persons in an airspace control element; supervises and evaluates training; prepares operations plans; assists in reconnaissance.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in map reading (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading and 3 in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 12 semester hours (2/76).

MOS-16J-001

DEFENSE ACQUISITION RADAR CREWMAN

16J10
16J20
16J30

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 162 (Air Defense Artillery Operations and Intelligence).

Description

Summary: Supervises or serves as a member of a defense acquisition radar section or a forward area alerting radar unit.

Skill Level 10: Operates radars and IFF (identification-friend-or-foe) equipment to obtain early warning and target identification data; manipulates radar adjustments to achieve optimum operating performance; observes, tracks, and interprets targets; reads topographic maps to locate points by means of coordinates and prepares grid overlays to plot positions; employs electronic countermeasures to avoid signal jamming; prepares records; performs operator maintenance; follows safety procedures; uses special test equipment to insure proper radar operation and maintenance; installs and operates communications equipment; operates power generating equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises over 20 persons; supervises operation and maintenance of radar and related equipment; directs on-the-job training; maintains equipment records; interprets intelligence information.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, credit in surveying on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (2/76)

Recommendation, Skill Level 30

In the vocational certificate category, credit in surveying on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading and 3 in human relations (2/76).

MOS-16P-001

ADA (Air Defense Artillery) Short Range Missile Crewman (Chaparral Crewman)

16P10
16P20
16P30

Exhibit Dates: 9/75-Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a crewman in a Chaparral system unit or as a gunner in a Redeye section. *Skill Level 10:* Prepares Chaparral fire unit for firing; prepares and fires Redeye missiles; stores ammunition; operates Chaparral unit equipment, including tracked vehicles, power generating equipment, target alert area display set, and fire control devices; assists in equipment maintenance. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; prepares and fires Chaparral missile; leads Redeye team. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads Chaparral squad; is chief of Redeye section; supervises 12-20 persons engaged in storing, loading, and transporting ammunition; supervises operation and operator maintenance of the equipment.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

MOS-16R-001

Vulcan Crewman

16R10
16R20
16R40

Exhibit Dates: 10/73-8/75.

Career Management Field: 16 (Air Defense Artillery), *subfield* 162 (Air Defense Artillery Gun Operations).

Description

Summary: Supervises or serves as a crewman in a Vulcan system section or serves as a platoon sergeant in a Chaparral or Vulcan platoon. *Skill Level 10:* Under supervision, operates selected basic communications equipment and tracked vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under supervision, manipulates the weapons system; operates generating equipment and firing devices; performs preventive maintenance on equipment; assists in the emplacement and displacement of the weapons system. *Skill Level 40:* Able to perform the duties required for Skill Level 20; as a first-line supervisor, coordinates the activities of the equipment operators; supervises the personnel engaged in storing, issuing, and transporting ammunition and missiles; supervises the emplacement and displacement of the weapons system; supervises the maintenance of equipment.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision or personnel management, 3 in public speaking, and 6 for field experience in management, for a total of 12 semester hours (2/75).

MOS-16R-002

ADA (Air Defense Artillery) Short Range Gunnery Crewman (Short Range Air Defense Artillery Crewman) (Area Air Defense Artillery Crewman)

16R10
16R20
16R30
16R40

Exhibit Dates: 9/75-Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a crewman in a Vulcan system section or serves as a platoon sergeant in a Chaparral or Vulcan platoon. *Skill Level 10:* Prepares and assists in firing Vulcan antiaircraft gun; operates and performs operator maintenance on wheeled and tracked vehicles, power generating equipment, communications equipment, and fire control devices; handles ammunition; assists in the emplacement and displacement of the weapons system; assists in performance of routine maintenance. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises equipment operation and operator maintenance; supervises the emplacement and displacement of the weapons system; supervises squad training and coordinates squad activities. *Skill Level 40:* Able to perform the duties required for 16R30 or 16P30 (ADA Short Range Missile Crewman or Chapparal Crewman); serves as platoon sergeant in a Chaparral or Vulcan platoon of more than 20 persons; assists superiors in planning, directing, training, coordinating, and reporting the activities of the platoon.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS-16Z-001

Air Defense Artillery (ADA) Senior Sergeant

16Z50

Exhibit Dates: 10/73-Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 160 (Air Defense Artillery General).

Description

Serves as the principal noncommissioned officer in an air defense artillery unit or headquarters and supervises 44 or more persons; assists superiors in the appraisal of air defense artillery operations, training, and intelligence information; prepares status board and situation map; collects, interprets, evaluates, and disseminates intelligence data; prepares and edits training and intelligence material and the operations manual; supervises security; advises superiors on all personnel matters; coordinates operation of battery food service and supply activities; assists superiors in planning, coordinating, and directing all air defense artillery activities. NOTE: May have progressed to 16Z50 from Skill Level 40 of any MOS in the air defense artillery career management field (16).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in technical writing, 3 in public speaking, 3 in map reading, and additional credit in electronics and mechanical maintenance on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, 6 for field experience in management, and additional credit in industrial arts education on the basis of institutional evaluation, for a minimum total of 15 semester hours (2/76).

MOS-17A-001

COMBAT SURVEILLANCE AND TARGET ACQUISITION CREWMAN

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 17A was discontinued and its functions were incorporated into Skill Level 10 of the following MOS's: 17B, Field Artillery Radar Crewman; 17C, Field Artillery Target Acquisition Specialist; 17K, Ground Surveillance Radar Crewman; 17L, Aerial Sensor Specialist (OV-1B/C); and 17M, Unattended Ground Sensor Specialist.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 170 (General).

Description

Assists in operation of combat surveillance and target acquisition systems; assists in determining direction and range of artillery rounds; assists in gathering intelligence; operates sound and light equipment; plots data on a map.

Recommendation

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

MOS-17B-001

FIELD ARTILLERY RADAR CREWMAN (COUNTERBATTERY/ COUNTERMORTAR RADAR CREWMAN)

17B20
17B40

Exhibit Dates: 10/73-8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in operation of counterbattery, countermortar, and moving target radar and associated equipment to locate firing weapons, locate moving targets, and adjust artillery. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); assists in equipment emplacement and concealment; prepares radar and associated equipment for operation; operates power unit; locates firing weapons and moving targets; performs calculation vectors and position prediction; operates and performs organizational maintenance on radar, basic communication equipment, vehicles, and related equipment; performs traverse to locate radar and establishes directional control; directs radar operations during period of interference or enemy jamming. *Skill Level 40:* Able to perform the duties required for Skill Level 20; selects site for emplacement of radar; employs knowledge of operational capabilities and limitations of all field artillery target acquisition systems; supervises subordinate personnel (20-22 in a section); organizes and conducts on-the-job training; supervises organizational maintenance; maintains equipment and personnel records.

Recommendation, Skill Level 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS-17B-002

FIELD ARTILLERY RADAR CREWMEMBER (FIELD ARTILLERY RADAR CREWMAN)

17B10
17B20
17B30
17B40

Exhibit Dates: 9/76-Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Engages in operation of counterfire and moving target locating radars and associated equipment. *Skill Level 10:* Emplaces and conceals equipment; operates power unit; operates and performs minor maintenance on radars and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; prepares site evaluation chart and surveillance cards; performs traverse to locate radar and establish directional control; assists in scheduling maintenance on radar and associated equipment; directs radar operations during periods of interference and jamming; employs electronic counter-countermeasures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a radar section of approximately 7 persons; selects and evaluates emplacement site; instructs radar operators in radar techniques and procedures; plans and organizes work schedules; assures adherence to safety procedures involving radar operation and maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of radar platoon of approximately 20 persons; supervises and directs operation of radar sections; assists platoon commander in supervision of platoon operations, training, resupply, and maintenance of platoon equipment; conducts reconnaissance and selection of tactical area for radars; prepares technical, personnel, and administrative reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading, for a total of 3 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in communication skills, 2 in human relations, 2 in personnel supervision, 1 for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading, for a total of 12 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in communication skills, 3 in human relations, 3 in personnel supervision, 1 for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading, for a total of 15 semester hours (4/77).

MOS-17C-001

SOUND RANGING CREWMAN

17C20
17C30
17C40

Exhibit Dates: 10/73-8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in operation of sound ranging equipment in an artillery sound ranging section or platoon. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); operates sound recording equipment; uses formulas and tables to compute data; operates and maintains communication equipment and vehicles. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs minor operational maintenance. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; supervises operation and maintenance of sound ranging section (up to 8 personnel) or platoon (up to 30 personnel).

Recommendation, Skill Levels 20 and 30

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a minimum total of 9 semester hours (3/76).

MOS-17C-002

FIELD ARTILLERY TARGET ACQUISITION SPECIALIST

17C10
17C20
17C30
17C40

Exhibit Dates: 9/76-Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Supervises or participates in operation of sound-ranging and flash-ranging equipment in the location of targets. *Skill Level 10:* Emplaces and operates sound-ranging and flash-ranging equipment; establishes and operates sound/flash observation post; initiates sound-ranging recordings; measures range and horizontal and vertical angles to weapon flashes and projectile bursts; uses mathematics and prepared tables to compute and plot sound/flash data for evaluation; performs preventive maintenance on sound-ranging and flash-ranging equipment; operates and performs operator maintenance on communications equipment and vehicles. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; orients, operates, and calibrates sound and flash equipment; supervises employment, operation, and preventive maintenance of field illumination equipment by Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operation of a sound/flash ranging section; controls operation of sound/flash observation posts; supervises computation of sound/flash data and maintenance of equipment; accepts, evaluates, processes, correlates, and reports target information. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the activities of a sound/flash and field illumination platoon; conducts reconnaissance and selects tactical location for sound, flash, and searchlight equipment; coordinates and insures logistical, personnel, administrative, and training support for all platoon elements (sound, flash, searchlight, and processing sections).

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic mathematics, 1 in electromechanical systems, and 1 in map reading, for a total of 3 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in personnel supervision, 2 in human relations, 2 in communication skills, 1 in basic mathematics, 1 in electromechanical systems, and 1 in map reading, for a total of 12 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in human relations, 3 in communication skills, 1 in basic mathematics, 1 in electromechanical systems, and 1 in map reading, for a total of 15 semester hours (4/77).

MOS-17D-001

FLASH RANGING CREWMAN

17D20
17D40

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 17D was discontinued and its functions were incorporated into MOS 17C, Field Artillery Target Acquisition Specialist.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in flash ranging operations. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); computes firing data; locates observation post and establishes directional controls; orients and calibrates flash ranging instruments; operates observation post; measures range and horizontal and vertical angles; computes and evaluates flash ranging data; operates and performs preventive maintenance on equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as the principal noncommissioned officer in a flash ranging platoon or section; supervises operation and emplacement of flash ranging equipment; supervises 8-12 technical personnel; when the duty assignment is platoon sergeant, supervises up to 30 personnel.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management and 3 in human relations, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS-17E-001

FIELD ILLUMINATION CREWMAN

17E20
17E30
17E40

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 17E was discontinued and its functions were incorporated into MOS 17C, Field Artillery Target Acquisition Specialist.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in field illumination and searchlight operations. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); sets up equipment to operate searchlight for field lighting and area findings; operates light direction center; assists in maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs routine and preventive maintenance of field artillery searchlights and associated electrical equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises operation of field illumination section, platoon, or comparable unit; supervises operation of light direction center; supervises maintenance of equipment and vehicles; when the duty assignment is platoon sergeant, supervises up to 30 persons.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in basic electronics (repair) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30, *only if Skill Level 30 was held prior to Skill Level 40.* In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS-17K-001

GROUND SURVEILLANCE RADAR CREWMAN

17K20
17K40

Exhibit Dates: 10/73-8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Operates radar and associated equipment; prepares maps, overlays, and surveillance records; maintains ground surveillance radar and associated equipment, communication equipment, and vehicles. NOTE: Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman). *Skill Level 20:* Assists in the emplacement and relocation of equipment; operates power units; locates radar and orienting points. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises all activities of ground surveillance radar team, section, or comparable group.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in map reading, and 2 in equipment maintenance, for a total of 8 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in map reading, 2 in equipment maintenance, and 3 in personnel supervision, for a total of 11 semester hours (2/75).

MOS-17K-002

GROUND SURVEILLANCE RADAR CREWMAN

17K10
17K20
17K30
17K40
17K50

Exhibit Dates: 9/76-Present.

Career Management Field: 96 (Military Intelligence), *subfield* 963 (Tactical Intelligence Surveillance).

Description

Summary: Supervises or participates in operation of ground surveillance radar/unattended ground sensor elements engaged in intelligence and information collection activities. *Skill Level 10:* Assists in emplacement and displacement of radars and associated equipment; detects, locates, and reports target data for evaluation; operates and performs preventive maintenance on communications equipment, power generators, light wheeled vehicles, ground surveillance radars, and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; selects radar locations; supervises operation and preventive maintenance of communications equipment, power generators, vehicles, ground surveillance radars, and associated equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief; conducts on-the-job training; selects potential radar emplacement sites, using maps, aerial photographs, terrain studies, and intelligence reports; prepares overlays and situation maps and maintains operational records; requests replacement parts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as platoon sergeant, supervising ground surveillance radar and unattended ground sensor activities; plans and organizes work schedules, assigns duties, instructs section chiefs in proper work techniques and procedures, and recommends operational changes; participates in intelligence surveillance. NOTE: May have progressed to 17K40 from 17K30 or 17M30 (Unattended Ground Sensor Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as first sergeant of a company or as the principal noncommissioned officer for ground surveillance at a large headquarters; assists in planning and coordinating employment of ground surveillance systems; assists in preparation and implementation of reconnaissance and surveillance operations plans; recommends procedures for emplacement of ground reconnaissance and surveillance assets.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic mathematics, 1 in map reading, and 1 for field experience in electromechanical maintenance, for a total of 3 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in personnel supervision, 2 in human relations, 2 in communication skills, 1 in basic mathematics, 1 in map reading, and 1 for field experience in electromechanical maintenance, for a total of 12 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in human relations, 3 in communication skills, 1 in basic mathematics, 1 in map reading, and 1 for field experience in electromechanical maintenance, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper/division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, and 3 for field experience in management, for a total of 12 semester hours (4/77).

MOS-17L-001

Airborne Sensor Specialist

17L20
17L40

Exhibit Dates: 10/73-8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Supervises or participates in airborne sensor operations in an aerial surveillance section or platoon. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); performs preflight checkout of airborne sensor equipment; performs inflight operation of airborne sensor equipment; assists aviator in using navigational aids in aircraft; performs limited imagery interpretation during mission; inspects operation of sensor equipment and readings of indicators; replaces malfunctioning unit or component with serviceable items; operates aircraft communications equipment as directed. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises preflight checkout of sensor equipment; supervises mounting and removal of sensor equipment in aircraft; supervises routine maintenance of sensor equipment, maintenance or records, and supervision of personnel; provides on-the-job training.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS-17L-002

Aerial Sensor Specialist (OV-1B/C)

17L10
17L20
17L30
17L40

Exhibit Dates: 9/76-Present.

Career Management Field: 96 (Military Intelligence), *Subfield* 963 (Tactical Intelligence Surveillance).

Description

Summary: Supervises or participates in aerial surveillance operations using ground data terminal systems to provide information and imagery of intelligence value. *Skill Level 10:* Performs aerial surveillance, including visual reconnaissance, search and rescue, radiological survey, and similar intelligence activities; operates aerial infrared, radar, photographic, or similar sensor systems including associated data transmission links and ground data terminal stations; performs radio communications and aids aviator in aerial navigation; performs applicable electronic counter-countermeasures; assists in image interpretation; performs operator maintenance on sensors and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; assists aviator in weather analysis, navigation computations, and aircraft preflight inspection procedures; operates or supervises the operation of aerial surveillance and associated equipment; troubleshoots sensor systems; records operation and maintenance data in equipment logs; utilizes interpretation keys in assisting image interpreter. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations and activities of a section; supervises inspections and operator maintenance of sensors and associated equipment; directs and conducts on-the-job training; assists in planning use of aerial surveillance systems; assists image interpreter in analysis and interpretation of imagery; conducts or participates in briefing headquarters staff on capabilities and limitations of aerial surveillance missions, and on the results obtained. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises aerial surveillance platoon operations; plans and organizes work schedules, assigns duties, and instructs section leaders in proper work techniques and procedures; critiques mission results; participates in planning the use of aerial surveillance systems and advises commander on coordination of aerial and ground surveillance; coordinates personnel, equipment, operational supply, and maintenance support requirements.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in general mathematics, 1 in still-camera techniques, and 1 in electric circuits, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 1 in still-camera techniques, 1 in electric circuits, and 1 in maps and air photos, for a total of 9 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 2 in maps and air photos, 2 in human relations, 2 in communication skills, 2 in personnel supervision, 1 in still-camera techniques, and 1 in electric circuits, for a total of 19 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 3 in human relations, 3 in communication skills, 3 in personnel supervision, 2 in maps and air photos, 1 in still-camera techniques, and 1 in electric circuits, for a total of 22 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

MOS-17M-001

Unattended Ground Sensor Specialist

17M20
17M30
17M40

Exhibit Dates: 10/74-8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Commands or serves as a member of an unattended ground sensor team, section, or platoon engaged in emplacing and operating sensors and sensor monitoring equipment. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); reads air photographs and contour maps to plan sensor and relay location; assists in sensor emplacement; emplaces and activates relay stations; emplaces monitors, and recovers sensor devices; reads and interprets monitoring, recording, and display devices and reports information gathered; computes density, direction, rate of movement, and nature of targets detected. *Skill Level 30:* Able to perform the duties required for Skill level 20; assembles, tests, and maintains ground sensor devices; inspects, assembles, tests, and maintains portable monitoring equipment, sensor relay and automated readout equipment; performs operational maintenance on equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; scouts potential areas, selects sensor emplacement sites, and supervises emplacement; determines employment and operational techniques; supervises maintenance; supervises unit personnel; maintains records; conducts on-the-job training.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial map interpretation (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electronics troubleshooting. In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial photographic map reading (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics troubleshooting, *only if Skill Level 30 was held prior to Skill Level 40.* In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial photographic map reading, 3 in human relations, and 3 for field experience in management, for a minimum total of 7 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 10 semester hours (3/76).

MOS-17M-002

UNATTENDED GROUND SENSOR SPECIALIST

17M10
17M20
17M30

Exhibit Dates: 9/76-Present.

Career Management Field: 96 (Military Intelligence), *subfield* 963 (Tactical Intelligence Surveillance).

Description

Summary: Operates unattended ground sensor elements engaged in intelligence and information collection activities. *Skill Level 10:* Emplaces, monitors, and recovers unattended ground sensors; reads aerial photographs and military maps; records, interprets, and reports unattended ground sensor activations; computes direction, rate of speed, target classification, and density; assists in performance of preventive maintenance on unattended ground sensors, relays, monitoring equipment, and associated equipment; performs operator maintenance on communications equipment and light wheeled vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; prepares for operation and operates sensors, sensor relays, monitoring equipment and associated equipment; uses maps, aerial photographs, terrain studies and intelligence reports; prepares sensor overlays; keeps records of sensors in place, including operating frequency, codes, presettings, locations, type of emplacement, activation, destruction/disability and recovery; performs preventive maintenance on unattended ground sensors and related equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises unattended ground sensor activities at the team level; supervises emplacement and displacement of unattended ground sensor equipment; prepares situation maps; maintains operational records; supervises maintenance of unattended ground sensors and associated equipment, communications equipment, and wheeled vehicles; inspects, tests, and maintains portable monitoring equipment.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial photograph interpretation (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, credit in basic electronic troubleshooting, communication equipment maintenance, wheeled vehicle maintenance, and map reading on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial photograph interpretation, and credit in basic electronic troubleshooting, communications equipment maintenance, wheeled vehicle maintenance, and map reading on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial photograph interpretation and 1 in personnel supervision, and credit in basic electronic troubleshooting, communications equipment maintenance, wheeled vehicle maintenance, and map reading on the basis of institutional evaluation for a minimum total of 2 semester hours (5/78).

MOS-17Z-001

COMBAT SURVEILLANCE AND TARGET
ACQUISITION NCO

17Z50

Exhibit Dates: 10/73-8/76. (Effective 9/76, MOS 17Z was discontinued and its functions were incorporated into the following MOS's: 13W, Field Artillery Target Acquisition Senior Sergeant; 13Z, Field Artillery Senior Sergeant; 17C, Field Artillery Target Acquisition Specialist; 17K, Ground Surveillance Radar Crewman; and 96Z, Intelligence Senior Sergeant.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 170 (General).

Description

Supervises operations or intelligence activities in target acquisition platoon, battery, battalion, or staff section at corps level artillery or serves as the principal noncommissioned officer in a combat surveillance target acquisition or searchlight battery; able to perform the duties required for Skill Level 40 of any MOS in career management field 17; provides liaison between combat surveillance or target acquisition elements and firing elements; supervises operation of command post; establishes unit defense; prepares operations and intelligence plans and reports; coordinates intelligence collection activities; as first sergeant of a battery, directs and coordinates battery administration, assists battery commander in unit training, and supervises up to 200 personnel; periodically serves as chief instructor in a training facility; prepares personnel reports and records; conducts on-the-job training.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in personnel management, and 6 for field experience in management, and additional credit in industrial arts education on the basis of institutional evaluation, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 18 semester hours (3/76).

MOS-19D-001

CAVALRY SCOUT

19D10
19D20
19D30
19D40

Exhibit Dates: 3/78-Present.

Career Management Field: 19 (Armor).

Description

Summary: Leads, serves, or assists as a member of a scout crew, squad, section, or platoon in reconnaissance security and other combat operations. *Skill Level 10:* Serves as a member of observation and listening posts; gathers and reports information on terrain features, enemy strength, disposition, and equipment; identifies targets; requests and adjusts indirect and aerial fire; operates wheeled and tracked vehicles and operates communications equipment; uses maps and map symbols; navigates on ground; uses compass and distinguishes topographic features; performs operator maintenance on scout vehicles, weapons, and communications equipment; assists in firing of crew-served weapons; performs first aid and applies field sanitation methods; uses radiac instruments and chemical detection kits. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads scout crew or assists squad leader; selects, organizes, and supervises operation of observation and listening posts; prepares, distributes, and files maps and overlays; reproduces, distributes, and files operations and intelligence information; coordinates with adjacent and supporting elements. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads scout squad or section; directs tactical deployment; leads in combat; supervises maintenance of assigned vehicles and equipment; evaluates routes, assembly areas, and positioning for mounted combat operations. *Skill Level 40:*

Able to perform the duties required for Skill Level 30; supervises armored cavalry or reconnaissance platoon and processes operations and intelligence information; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of the scout or armored cavalry platoon and staff sections; directs distribution of fire; supervises platoon maintenance activities; collects, evaluates, and assists in interpretation and dissemination of combat information. NOTE: May have progressed to 19D40 from 19D30 or 19G30 (Armor Reconnaissance Vehicle Crewman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in map reading and 3 in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid and 3 in map reading (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in map reading and 6 in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, and 3 in record keeping, for a total of 7 semester hours (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in record keeping, and 3 in personnel supervision, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in record keeping, 3 in personnel supervision, and 3 in human relations, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

MOS-19E-001

M48-M60A1/A3 Armor Crewman

19E10
19E20
19E30
19E40

Exhibit Dates: 3/78-Present.

Career Management Field: 19 (Armor).

Description

Summary: Leads, supervises, or serves as a member of an armor tank unit. *Skill Level 10:* Secures, prepares, and stows communications aboard vehicle; loads and unloads main gun; exercises all safety precautions in handling of ammunition; installs and dismantles antennas; prepares radio equipment for operation and operates communications equipment; assists in target detection and identification; determines range to target, prepares range cards, reads maps, places turret in operation, and fires main gun; performs operator maintenance on turret, weapons, controls, equipment, and communications equipment; protects self, weapons, and equipment from chemical and other contaminants; employs principles of escape and evasion; administers first aid and applies field sanitation methods; breaches and clears minefields and obstacles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; loads and fires main gun; leads ammunition supply section; helps process intelligence and operation data; provides technical guidance to Skill Level 10 personnel; prepares, files, and distributes operation maps, situation maps, and overlays; reads and interprets maps and aerial photographs; reproduces, distributes, and files operation intelligence, administrative and unit training documents, orders, publications, and evaluation results. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; trains crews; requests, observes, and adjusts supporting fire. NOTE: May have progressed to 19E30 from 19E20 or 19F20 (Tank Driver). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises tank platoon and processing of operations and intelligence information; assists in planning, organization, direction, training supervision, coordination, and reporting activities of tank or staff sections; collects, evaluates, assists in interpretation and dissemination of combat information.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, and 2 in record keeping, for a total of 6 semester hours (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in personnel supervision, and 3 in record keeping, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in record keeping, 3 in personnel supervision, and 3 in human relations, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

MOS-19F-001

Tank Driver

19F10
19F20

Exhibit Dates: 3/78-Present.

Career Management Field: 19 (Armor).

Description

Summary: Drives and performs operator maintenance on tanks. *Skill Level 10:* Drives tanks, combat engineer vehicles, and armored vehicle launched bridges; operates tracked vehicles over varied terrain and roadways in combat formation and armor marches; exercises techniques of land navigation; assists in reading and interpreting maps and aerial photographs; selects tank routes; assists in target detection and identification; performs operator maintenance on automotive components; administers first aid and applies field sanitation methods; assists in construction of fortifications and barriers, including minefields; protects self, weapons, vehicle, and equipment from chemical and other contaminants. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs senior tank driving duties and provides technical guidance to Skill Level 10 personnel; assists in maintaining training readiness of platoon drivers; fires main gun as required; reads and interprets maps and aerial photographs.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading and 1 in first aid (11/79).

MOS-19G-001

Armor Reconnaissance Vehicle Crewman

19G10
19G20
19G30

Exhibit Dates: 3/78-Present.

Career Management Field: 19 (Armor).

Description

Summary: Serves as a member of, or as commander of a crew operating in an armored reconnaissance vehicle. *Skill Level 10:* Serves as loader of conventional or missile ammunition; recognizes chemical or nuclear hazards and exercises safety precautions; knows first-aid procedures; operates gun firing control systems; prepares range cars and calibrates sighting devices; assists in constructing field barriers; operates radio communications equipment; performs maintenance on vehicle, fire control devices, and armament, using checklists to meet specified standards. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; assists in maintaining gunnery proficiency of subordinate gunners; prepares, files, and distributes operation and situation maps and overlays; reads and interprets maps and aerial photographs; reproduces and distributes intelligence and operations documents; reproduces files and distributes training and administrative documents, publications, and evaluation reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor of a crew and as the vehicle/crew commander; plans reconnaissance routes, identifies and selects targets, and issues fire commands, supervises crew maintenance and coordinates organizational maintenance; trains crews; insures collection and reporting of intelligence data.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance.

In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, and 2 in record keeping, for a total of 6 semester hours (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in personnel supervision, and 3 in record keeping, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

MOS-19H-001

ARMOR RECONNAISSANCE VEHICLE DRIVER

19H10
19H20

Exhibit Dates: 3/78-Present.

Career Management Field: 19 (Armor)

Description

Summary: Drives and performs operator maintenance on armor personnel carrier vehicle. *Skill Level 10:* Operates tracked vehicle over varied terrain and roadways in combat formations and armor marches; exercises techniques of land navigation; assists in reading and interpreting maps and aerial photographs; selects tank routes; assists in target detection and identification; operates vehicular intercommunications equipment; performs crew maintenance on automotive components of tank; employs principles of cover, concealment, and camouflage; administers first aid and applies field sanitation methods; assists in construction of fortifications barriers and minefields; protects self, weapons, vehicle, and equipment from chemical and other contaminants. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs as senior armor reconnaissance vehicle driver, and provides technical guidance to Skill Level 10 personnel; reads and interprets maps and aerial photographs.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading and 1 in first aid (11/79).

MOS-19J-001

M60A2 ARMOR CREWMAN

19J10
19J20
19J30
19J40

Exhibit Dates: 3/78-Present.

Career Management Field: 19 (Armor).

Description

Summary: Leads or serves as a member of a tank unit in field operations. *Skill Level 10:* Serves as loader or gunner of weapon, *using conventional ammunition or missile;* exercises safety precautions and knows first-aid procedures; installs and prepares radio equipment for use; operates communication equipment; prepares rangefinder, determines ranges and prepares range cards; operates main gun controls and firing controls; performs operator maintenance on vehicle armament and weapons; assists in maintaining other organizational equipment; assists in clearing and breaching minefields. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides guidance to Skill Level 10 personnel; inspects equipment for malfunctions; assists in maintaining gunnery proficiency of Skill Level 10 personnel; supervises ammunition supply operations; prepares, files, and distributes operation and situation maps and overlays; reads and interprets maps and aerial photos; reproduces and distributes intelligence and operations documents; reproduces files and distributes training and administrative documents, publications, and evaluation reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as tank commander and first-line supervisor; directs deployment of personnel in combat operations; identifies and selects targets; issues fire commands and directs fire on targets; trains crew members; coordinates action of tank with platoon and supporting elements; evaluates work performance of crew members; ensures collection and reporting of intelligence data. NOTE: May have progressed to 19J30 from 19J20 or 19F20 (Tank Driver). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises tank platoon operations and processing of intelligence information; assists in planning, organizing, and coordinating squads; advises commander on employment of weapons and the assigning of fields of fire.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, and 2 in record keeping, for a total of 6 semester hours (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in personnel supervision, and 3 in record keeping, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in record keeping, 3 in personnel supervision, and 3 in human relations, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

MOS-19Z-001

ARMOR SENIOR SERGEANT

19Z50

Exhibit Dates: 3/78-Present.

Career Management Field: 19 (Armor).

Description

Plans, coordinates, and supervises activities of a unit; supervises operations, intelligence, or liaison activities; as intelligence sergeant, collects, interprets, analyzes, and distributes intelligence information; writes routine and special reports, commendations, and operations plans; edits and prepares tactical and training plans; coordinates and implements training programs and directs on-the-job training; is a mid-level manager overseeing 90-150 persons; assists in making formal briefing presentations, and in presenting instruction to larger groups (30-70); provides formal and informal counseling to individuals and groups. NOTE: May have progressed to 19Z50 from 19D40 (Cavalry Scout), 19E40 (M48-M60A1/A3 Armor Crewman), or 19J40 (M60A2 Armor Crewman)

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in personnel supervision, 3 in office management, 3 in report writing, and 3 in public speaking, for a total of 15 semester hours. In the upper-division baccalaureate/category, 6 semester hours in personnel management, 6 for field experience in management, 3 in human relations, and 3 in report writing, for a total of 18 semester hours (11/79).

MOS-21G-001

PERSHING ELECTRONICS MATERIEL SPECIALIST

21G20
21G40

Exhibit Dates: 10/73-8/77.

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 211, Pershing Missile Repair.

Description

Summary: Supervises or performs inspection, checkout, and troubleshooting of electronic equipment associated with the Pershing missile system. *Skill Level 20:* Inspects, tests, adjusts, and troubleshoots the Pershing programmer test station, missile, missile trainer, erector launcher, power station, and associated equipment; pulls module unit or circuit board for others to repair; uses multimeter, frequency meter, and to a limited extent, other electronic meters; employs a working knowledge of electronics. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises five or more Skill Level 20 personnel; supervises the preparation of technical forms and reports; coordinates activities with other maintenance units; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; supervises the requisitioning and storing of supplies and repair parts.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC-DC theory and 1 in introduction to digital electronics. In an electronics technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC-DC theory, 1 in introduction to digital electronics, 3 in human relations, and 3 for field experience in management, for a total of 10 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS-21G-002

Pershing Electronics Materiel Specialist

21G10
21G20
21G30

Exhibit Dates: 9/77–Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 271 (Ballistic-Land Combat Systems Maintenance).

Description

Summary: Supervises or performs inspection, checkout, and trouleshooting on electronic, mechanical, hydraulic, and pneumatic equipment associated with the Pershing missile system. *Skill Level 10:* Operates and performs maintenance on the Pershing missile programmer-test station, missile, missile trainer, erector-launcher, power station, and associated equipment; performs limited isolation of malfunctioning equipment and components through the use of computer and adapter diagnostic program tapes. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs detailed organizational maintenance of the system and provides technical guidance to operator personnel; isolates malfunctioning equipment and components through manual troubleshooting techniques, using electronic test equipment and functional schematics; adjusts or replaces malfunctioning components; prepares maintenance and supply forms and reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises maintenance activities; supervises the preparation of technical forms and reports; coordinates activities with supporting maintenance units; determines faulty work practices and demonstrates proper maintenance and troubleshooing techniques; supervises the requisitioning and storage of supplies and repair parts.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electronics. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory and 1 in technical mathematics (6/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 3 in AC/DC theory, and 1 in digital electronics, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 2 in technical mathematics, and 1 in digital electronics, for a total of 9 semester hours (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 2 in technical mathematics, 1 in digital electronics, 3 in human relations and 3 for field experience in management, for a total of 15 semester hours (6/79).

MOS-21L-001

Pershing Electronics Repairman

21L20
21L40
21L50

Exhibit Dates: 10/73–8/77.

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 211 (Pershing Missile Repair).

Description

Summary: Supervises or performs maintenance and repair of all electronic systems and components of the Pershing missile system, using a theoretical and working knowledge of electronic, digital, and logic circuits. *Skill Level 20:* Performs maintenance on the programmer test station, training set, and associated equipment, and on system test equipment; reads electronic schematics; uses a wide range of electronic meters, including scope, to inspect, test, and adjust components; determines the causes of malfunctions in electronic, electrical, electromechanical, and pneumatic assemblies, subassemblies, modules, and circuit elements, and makes necessary repairs or replaces defective components; has a background in electronic theory and is familiar with digital and logic circuits; performs quality control measures; installs modifications on electronic equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes repair priorities; supervises 6 or more persons in an electronic repair section; conducts on-the-job training; implements quality control measures; establishes and keeps maintenance records; determines faulty work practices and demonstrates proper maintenance techniques. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as the principal noncommissioned officer in a missile maintenance unit, supervises 30 or more persons; assists superiors in establishing policies and procedures; directs and coordinates the administration of a unit or facility; directs on-the-job training; may serve as a chief instructor in a formal training facility; holds meetings with subordinate noncommissioned officers to provide guidance and direction. NOTE: May have progressed to 21L50 from 21L40, 21G40 (Pershing Electronics Materiel Specialist), or 46N40 (Pershing Electrical-Mechanical Repairman).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 2 in digital electronics, and 2 in technical mathematics, and additional credit in electronic instruments on the basis of institutional evaluation, for a minimum total of 7 semester hours. In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC-DC theory, 2 in digital electronics, 2 in technical mathematics, 3 in human relations, 3 for field experience in management, and additional credit in electronic instruments on the basis of institutional evaluation, for a minimum total of 13 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in personnel management, 6 for field experience in management, and 3 in industrial arts education (electronics), for a minimum total of 18 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS-21L-002

Pershing Electronics Repairer

21L10
21L20
21L30
21L40
21L50

Exhibit Dates: 9/77–Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance).

Description

Summary: Supervises or performs maintenance and repair of electronic, mechanical, hydraulic, and pneumatic systems and components associated with the Pershing Missile System, using a theoretical and working knowledge of electronic, digital, and logic circuits. *Skill Level 10:* Performs maintenance on the programmer test station, items for the guidance and control section, training set and associated training equipment, and on system test equipment; reads electronic schematics and uses a wide range of electronic meters, including scope, to inspect, test, and adjust components to specific tolerances; determines deficiencies and causes of malfunctions in electronic, electrical, electromechanical, and pneumatic assemblies, subassemblies, modules, and circuit elements; determines serviceability and disposition of defective assemblies, subassemblies, and parts; serves on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; installs equipment modifications; provides technical assistance to support units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes workload and repair priorities; supervises receipt, storage, inspection, testing, and repair of items; implements quality control measures; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance techniques; establishes and maintains maintenance records; serves as maintenance inspector; may supervise 6 or more persons. *Skill Level 40:* Able to perform duties required for either 21L30, 21G30 (Pershing Electronic Materiel Specialist), or 46N30 (Pershing Electrical-Mechanical Repairer); supervises maintenance on electronic and electro-mechanical systems and components of the missile systems; serves as section chief or platoon sergeant of a detachment, platoon company, or comparable organization; supervises and assists in the development of quality control programs; may supervise 7 or more persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises Pershing Missile System maintenance activities; serves as maintenance chief; may supervise 30 or more persons; serves as principal noncommissioned officer in a missile maintenance unit.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in AC/DC theory, 6 in basic electronics, 9 in computer fundamentals, and 3 in technical mathematics, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, and 3 in technical mathematics, for a total of 12 semester hours (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, 3 in technical mathematics, 3 in maintenance management, 3 in personnel supervision, and 3 in human relations, for a total of 21 semester hours (6/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, 3 in technical mathematics, 3 in maintenance management, 3 in personnel supervision, 3 in human relations, 2 in communication skills, and 3 for field experience in management, for a total of 26 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to managment, 3 for field experience in management, and 3 in industrial arts education (electronics), for a total of 9 semester hours (6/79).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, 3 in industrial arts education (electronics) and 3 in personnel management, for a total of 15 semester hours (6/79).

MOS-21R-001

SERGEANT FIRING SET REPAIRMAN

21R20

21R40

Exhibit Dates: 10/73-8/77. (Effective 9/77, MOS 21R was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs support maintenance on the Sergeant missile system firing set. *Skill Level 20:* Performs functional tests on the firing set in conjunction with the missile or training missile to assure proper countdown operation; performs systems analysis with portable test equipment and built-in self-test circuits to locate and isolate malfunctioning electrical circuits and electronic assemblies; removes and replaces defective assemblies and adjusts equipment to insure performance within specified tolerances; performs initial and final checkout and serviceability inspections; determines disposition of defective assemblies; performs quality control measures; performs minor calibration; provides technical assistance; serves on inspection teams; prepares maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

MOS-21S-001

SERGEANT MISSILE GUIDANCE REPAIRMAN

21S20

21S40

Exhibit Dates: 10/73-8/77. (Effective 9/77, MOS 21S was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs support maintenance on the Sergeant missile guidance system. *Skill Level 20:* Operates test stations and appropriate supplemental shop sets to isolate malfunctions to the assembly level in missile guidance and control systems and training missiles; may isolate malfunctions to the subassembly level when required; removes and replaces defective assemblies; performs initial and final checkout and inspection; makes authorized adjustments on equipment; determines disposition of defective assemblies; performs quality control measures; performs simple calibrations; provides technical assistance; serves on inspection teams; prepares applicable maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

MOS-21T-001

SERGEANT TEST EQUIPMENT REPAIRMAN

21T20

21T40

Exhibit Dates: 10/73-8/77. (Effective 9/77, MOS 21T was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs support maintenance on Sergeant missile system test equipment. *Skill Level 20:* Operates and performs support maintenance on special test sets used on the Sergeant missile system; isolates subassembly malfunctions; repairs or removes and replaces defective components and parts; performs initial and final checkout and inspection of equipment; determines serviceability and disposition of defective assemblies, subassemblies, and components; performs quality control measures; performs maintenance and calibration on maintenance test equipment; serves on inspection teams; prepares maintenance and supply forms and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises support maintenance on Sergeant missile system test equipment; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

MOS-21U-001

SERGEANT MAINTENANCE CHIEF

21U50

Exhibit Dates: 10/73-8/77. (Effective 9/77, MOS 21U was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Supervises support maintenance of the Sergeant missile system; able to perform the duties required for 21R40 (Sergeant Firing Set Repairman); 21S40 (Sergeant Missile Guidance Repairman), 21T40 (Sergeant Test Equipment Repairman), or 46L40 (Sergeant Electrical-Mechanical Repairman); supervises and coordinates support maintenance of the Sergeant missile, launching station and firing set, azimuth orientation unit, training missile, special test stations, supplemental shop sets, and other system-associated equipment; may supervise up to 120 persons; supervises and assists in the development of quality assurance/quality control programs; may serve as an administrator; advises superiors on all enlisted personnel matters; may serve as a chief instructor in a formal training facility.

Recommendation

In the vocational certificate category, 2 semester hours in hydraulic laboratory, 2 in basic electricity laboratory, and 2 in systems maintenance, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 1 in public speaking, 3 in personnel supervision, and 6 for field experience in management, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management; and *if the duty assignment was chief instructor*, 3 semester hours for an internship in education (6/76).

MOS-22K-001

HAWK MISSILE-LAUNCHER REPAIRMAN

22K20
22K40

Exhibit Dates: 10/73-1/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Performs inspection, maintenance, and repair on specialized missile and support equipment. *Skill Level 20:* Performs routine maintenance on missile and launching devices; inspects, tests, and adjusts equipment components to specified tolerances; identifies and repairs malfunctions in fluidic, electrical, electronic, and mechanical systems, using a wide variety of test equipment, including multimeters, bridges, oscilloscopes, signal generators, and pulse counters; performs calibration and repair for all test equipment; keeps applicable maintenance and supply forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor with responsibility for on-the-job training; establishes workloads and repair priorities; implements quality control measures; conducts technical inspections; keeps maintenance records.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry). In an electronic technician apprentice training program, 1,000 clock hours of experience and 200 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry), and additional credit in personnel supervision and for field experience in education on the basis of institutional evaluation for a minimum total of 6 semester hours. In an electronic technician apprentice training program, 1,200 clock hours of experience and 250 contact hours of related instruction (3/75).

MOS-22K-002

HAWK MISSILE-LAUNCHER REPAIRMAN

22K20
22K40

Exhibit Dates: 2/76-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Hawk missile system, launcher, and associated equipment. *Skill Level 20:* Uses common and system special-design test equipment to inspect, test, and adjust missile and launcher-control components to specific tolerances and to troubleshoot malfunctions (to component level) in electronic, electrical, mechanical, hydraulic, and electromechanical assemblies, subassemblies, modules, and circuit elements; installs equipment modifications; performs quality control measures, minor calibrations, and initial and final checkouts and inspections; determines the serviceability and disposition of defective assemblies, subassemblies, and parts. *Skill Level 40:* Able to perform the duties required for *Skill Level 20;* provides first-line technical supervision for Hawk missile-launcher repairmen; coordinates repair activities; organizes and supervises maintenance and inspection teams; prepares technical reports and forms; plans and conducts on-the-job training; keeps maintenance records; implements quality control measures; recommends procedures for receiving, storing, testing, and repairing equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 3 in technical mathematics, 2 in shop practices, and 1 in control systems, and additional credit in electronics, hydraulics, and mechanics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in technical mathematics, 1 in transistor/tube theory, 1 in electronic instruments, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in technical mathematics, 1 in transistor/tube theory, and 1 in electronic instruments, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-22K-003

HAWK MISSILE AND LAUNCHER REPAIRER

22K10
22K20
22K30

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Performs maintenance on the Hawk missile and missile launcher. *Skill Level 10:* Performs routine maintenance on missile and launching devices; inspects, tests, and adjusts components, subassemblies, and assemblies to specified tolerances; identifies and repairs malfunctions in hydraulic, electrical, electronic, and mechanical systems, using a wide variety of test equipment, including oscilloscopes, signal generators and allied instruments; performs tests of missiles in storage to ascertain readiness condition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; performs initial and final type checkout and inspection of designated system assemblies; installs approved system modifications; provides technical assistance to supported units; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises activities of lower skill level personnel; establishes workloads and repair priorities; recommends procedures for repair, inspection, and storage of systems under the area of responsibility; organizes and supervises inspection teams; organizes and conducts on-the-job training programs; establishes and keeps maintenance records current.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic mathematics (including trigonometry) and 3 in basic electricity and electronics. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning algebra and 3 in basic electricity and electronics (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic mathematics (including trigonometry), 3 in basic electricity and electronics, 3 in electronic test procedures, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning algebra, 3 in basic electricity and electronics, and 3 in electronic test procedures, for a total of 9 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic mathematics (including trigonometry), 3 in basic electricity and electronics, 3 in electronic test procedures, 3 in electronics shop practices, and 2 in maintenance management, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning algebra, 3 in basic electricity and electronics, 3 in electronic test procedures, 3 in electronics shop practices, 3 in personnel supervision, and 2 in record keeping, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

MOS-22L-001

NIKE TEST EQUIPMENT REPAIRMAN

22L20

22L40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance on Nike special purpose test equipment. *Skill Level 20:* Inspects, tests, and adjusts system-item chassis and test equipment to specific tolerances; troubleshoots and repairs deficiencies in electronic assemblies and subassemblies (to component level); determines serviceability and disposition of defective assemblies, subassemblies, and parts; performs initial and final checkouts and inspections; performs quality control measures; performs minor calibrations; installs modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; provides first-line technical supervision of Nike test equipment repairmen; establishes workloads and repair priorities; prepares technical forms and reports; organizes and supervises inspection and maintenance teams; plans and conducts on-the-job training programs; supervises requisitioning and storing of repair parts and supplies.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communication systems (electronics), 1 in shop practices, and 1 in alignment techniques (video), for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-22L-002

NIKE TEST EQUIPMENT REPAIRER

22L10

22L20

22L30

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance and repair on Nike special purpose test equipment. *Skill Level 10:* Inspects, tests, and adjusts system-item chassis and test equipment to specific tolerances, having known-input readings to test against; knows circuit diagrams and reads schematics; troubleshoots and repairs deficiencies in electronic assemblies and subassemblies; replaces individual components; uses multimeters, oscilloscopes, and electronic shop assemblies; determines serviceability and disposition of defective assemblies, subassemblies, and parts; performs quality control measures; performs minor calibrations and repairs; serves on inspection teams to evaluate serviceability of associated equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel and supported units; installs equipment modifications; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; corrects faulty work practices; establishes workloads and repair priorities; prepares technical forms and keeps maintenance records; organizes and conducts on-the-job training programs; recommends procedures for inspecting, testing, and repair of items; implements quality control program; performs initial and final checkout inspections of workload items; organizes and supervises inspection and maintenance teams.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in basic electricity, 1 in systems maintenance, and 3 in electronic systems troubleshooting, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 2 in AC/DC circuit fundamentals, and 1 in electronic instruments, for a total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), and credit in electronic device theory, radar/microwave, and circuit analysis on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic electricity, 3 in systems maintenance, 3 in electronics shop practices, 2 in maintenance management, and 3 in electronic systems troubleshooting, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 2 in AC/DC circuit fundamentals, 3 in electronics shop practices, 2 in maintenance management, 1 in electronic instruments, 3 in personnel supervision, and 2 in record keeping, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), 3 for field experience in personnel management, and credit in electronic device theory, radar/microwave, and circuit analysis on the basis of institutional evaluation (1/80).

MOS-22N-001

NIKE-HERCULES MISSILE-LAUNCHER REPAIRMAN

22N20

22N40

Exhibit Dates: 10/74-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Nike-Hercules missile system, launcher, and associated equipment. *Skill Level 20:* Uses common and system special-design test equipment to inspect, test, and adjust missile and launcher-control components to specific tolerances and to troubleshoot malfunctions (to component level) in electronic, electrical, mechanical, electromechanical, hydro-pneumatic assemblies, subassemblies, modules, and circuits; installs equipment modifications; performs quality control measures, minor calibrations, and initial and final checkouts and inspections; determines the serviceability and disposition of defective assemblies, subassemblies, and parts. *Skill Level 40:* Able to perform the duties required for Skill Level 20; provides first-line technical supervision for Nike-Hercules missile-launcher repairmen; coordinates repair activities; organizes and supervises inspection and maintenance teams; prepares technical reports and forms; plans and conducts on-the-job training; keeps maintenance records; implements quality control measures; recommends procedures for receiving, storing, testing, and repairing equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communications systems (electronics), 1 in shop practices, and 1 in alignment techniques (video) for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-22N-002

NIKE-HERCULES MISSILE-LAUNCHER REPAIRER

22N10
22N20
22N30

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance and repair on Nike-Hercules missile system, launcher, and associated equipment. *Skill Level 10:* Uses common and special-design test equipment to inspect, test, and adjust launcher-control and missile components to specific tolerances; troubleshoots and repairs electric, mechanical, electromechanical, and hydropneumatic assemblies and subassemblies, replaces individual component items; uses multimeter and oscilloscope to verify radio frequency pulse and to diagnose; performs quality control measures, minor calibrations, and checkout inspections; determines serviceability and disposition of defective assemblies or parts; serves on inspection teams. *Skill level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel and to supported units; installs equipment modifications; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; establishes and keeps maintenance records; organizes and supervises inspection and maintenance teams; conducts on-the-job training programs; recommends procedures for inspecting, testing, and repairing items; implements quality control procedures and coordinates repair activities.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in basic electricity, 1 in systems maintenance, 1 in electronic systems troubleshooting, and 2 in mechanical/hydraulic systems troubleshooting, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 2 in AC/DC circuit fundamentals, and 1 in electronic instruments, for a total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), and credit in electronic device theory, hydraulic theory, and circuit analysis on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic electricity, 3 in systems maintenance, 1 in electronic systems troubleshooting, 3 in electronics shop practices, 2 in mechanical/hydraulic systems troubleshooting, and 2 in maintenance management, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 2 in AC/DC circuit fundamentals, 1 in electronic instruments, 2 in record keeping, 3 in electronics shop practices, 3 in personnel supervision, and 2 in maintenance management, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), 3 for field experience in personnel management, and credit in electronic device theory, hydraulic theory, and circuit analysis on the basis of institutional evaluation (1/80).

MOS-23N-001

NIKE TRACK RADAR REPAIRMAN

23N20
23N40

Exhibit Dates: 10/73–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Maintains low-power acquisition radar, target and missile tracking radar, target ranging radar, as well as on-site systems, including analog computer, test sets, antenna mast group, operator console, and associated test equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electronic, mechanical, electrical, and electromechanical systems with common and special-designed system test equipment; repairs assemblies and modules; performs initial and final inspection on systems and assemblies; performs calibration and repair on job-related equipment; installs modifications on system items; serves on inspection teams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; provides first-line technical supervision; trains personnel; supervises the preparation of technical forms and reports; coordinates unit activities; demonstrates proper maintenance and troubleshooting techniques; establishes workloads and repair priorities; conducts technical inspections.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communications systems (electronics), 1 in shop practices, and 1 in alignment techniques (video), for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-23N-002

NIKE TRACK RADAR REPAIRER

23N10
23N20
23N30

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Maintains low-power acquisition radar, target and missile tracking radar, target ranging radar, as well as on-site systems, including analog computer, test sets, antenna mast group, operator console, and associated test equipment. *Skill Level 10:* Inspects, tests, and adjusts components to specific tolerances; follows specified written procedures and circuit schematics; uses typical industrial, as well as military test equipment to determine malfunctions in electronic, mechanical, electrical, and electro-mechanical systems; troubleshoots and repairs assemblies and modules down to the component level; performs calibration and repair on job-related equipment; may install modifications on systems and serve on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs initial and final inspection on systems and subassemblies; may assist in on-the-job training. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides first-line technical supervision; trains personnel; supervises the preparation of technical forms; coordinates unit activities; demonstrates proper maintenance and troubleshooting techniques; establishes workloads and repair priorities; conducts technical inspections.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in basic electronics, 2 in electronics systems troubleshooting, and 2 in electronic instruments, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to electronics and 2 in electronic instruments. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering) (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic electronics, 2 in electronics systems troubleshooting, 2 in electronic instruments, 2 in maintenance management, and 3 in electronics shop practices, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to electronics, 2 in electronics instruments, 3 in personnel supervision, and 2 in record keeping, for a total of 9 semester hours. In the upper-divison baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering) and 3 for field experience in personnel management (1/80).

MOS-23Q-001

Hawk Fire Control Repairman

23Q20
23Q40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Hawk missile fire control system equipment. *Skill Level 20:* Tests, evaluates, and repairs electronics modules, circuit elements, and complete assemblies for radar and communications; uses test equipment such as oscilloscopes, voltmeters, ohmmeters, and spectrum analyzers; installs equipment modifications; analyzes malfunctions; assists radar equipment operators in maintaining equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises support level maintenance on the Hawk fire control system equipment; establishes workloads and repair priorities; implements quality control measures; organizes and supervises inspection and maintenance teams; conducts on-the-job training; keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electronics and 3 semester hours in advanced electronics, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including right angle trigonometry), 3 in DC circuits, 3 in AC circuits, 3 in transistors/tubes/amplifiers/oscillators, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including right angle trigonometry), 3 in DC circuits, 3 in AC circuits, 3 in transistors/tubes/amplifiers/oscillators, 3 in human relations, and 3 in personnel supervision, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-23Q-002

Hawk Fire Control Repairer

23Q10
23Q20
23Q30

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-23S-001

Hawk Pulse Radar Repairman

23S20
23S40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Hawk pulse acquisition radar and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines deficiencies in electronic, electrical, mechanical, electromechanical, and heat transfer assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; troubleshoots to the component level; installs equipment modifications; performs initial and final checkouts and inspections. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises support-level maintenance on the Hawk pulse radar and related equipment; establishes workloads and repair priorities; implements quality control measures; organizes and supervises maintenance and inspection teams; conducts on-the-job training; demonstrates proper repair techniques; keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in DC circuits, 3 in AC circuits, and 3 in transistors/tubes, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including trigonometric functions), 3 in DC circuits, 3 in AC circuits, and 3 in transistors/tubes, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including trigonometric functions), 3 in DC circuits, 3 in AC circuits, 3 in transistors/tubes, 3 in human relations, 3 in personnel supervision and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program, 3,000 clock hours of experience and 216 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-23S-002

Hawk Pulse Radar Repairer

23S10
23S20
23S30

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-23T-001

Hawk Continuous Wave Radar Repairman

23T20

23T40

Exhibit Dates: 10/73-1/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Performs inspection, maintenance, and repair on a specialized continuous wave acquisition radar and associated equipment. *Skill Level 20:* Inspects, tests, adjusts, troubleshoots, and repairs items associated with this specific continuous wave radar system; provides technical assistance to operators; uses a wide range of test equipment including multimeters, bridges, oscilloscopes, signal generators, and pulse counters. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor responsible for on-the-job training; establishes workloads and maintenance priorities; implements quality control measures; keeps maintenance records.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry). In an electronic technician apprentice training program, 1,000 clock hours of experience and 200 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry), and additional credit in personnel supervision and for field experience in education on the basis of institutional evaluation, for a minimum total of 6 semester hours. In an electronic technician apprentice training program, 1,200 clock hours of experience and 250 contact hours of related instruction (3/75).

MOS-23T-002

Hawk Continuous Wave Radar Repairman

23T20

23T40

Exhibit Dates: 2/76-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Performs maintenance on Hawk continuous wave radars and associated equipment. *Skill Level 20:* Performs maintenance on the Hawk continuous wave radar, continuous wave illuminator radar (high powered illuminator-HPI), including HPI built-in test equipment and other system-designed test equipment; inspects, tests, and adjusts components to specific tolerances; determines shortcomings and malfunctions in electronic, electrical, electromechanical, and heat transfer assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; determines serviceability and disposition of defective assemblies, subassemblies, and parts; performs "C" level calibration and repair on test equipment; installs equipment modifications; performs initial and final checkouts and inspections; provides technical assistance to other units. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance on Hawk continuous wave radar and associated equipment; establishes repair priorities and workloads; implements quality control measures; supervises inspection and maintenance teams; conducts on-the-job training programs; demonstrates proper repair techniques and procedures; keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in AC and DC circuits and use of test equipment, and 3 in radar, and additional credit in mechanics and electronics on the basis of institutional evaluation, for a minimum total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in AC and DC circuits and use of test equipment, 3 in radar, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, and additional credit in mechanics and electronics on the basis of institutional evaluation, for a minimum total of 24 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-23T-003

Hawk Continuous Wave Radar Repairer

23T10

23T20

23T30

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-23U-001

Nike High Power Radar-Simulator Repairman

23U20

23U40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance on Nike high-power acquisition radar, radar target simulator, and associated equipment. *Skill Level 20:* Uses common and special-design test equipment to inspect, test, and adjust components to specific tolerances and to determine malfunctions in electronic, electrical, mechanical, hydraulic, pneumatic, and heat transfer assemblies, modules, and circuit elements; determines serviceability and disposition of defective assemblies, subassemblies, and parts; performs initial and final checkouts and inspections; performs quality control measures; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; recommends procedures for receiving, storing, testing, and repairing equipment; implements quality control measures; organizes and supervises inspection and maintenance teams; conducts on-the-job training; demonstrates proper repair techniques; keeps maintenance records; is a first-line technical supervisor.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in AC and DC theory and 3 in vacuum tube and transistor theory. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory and/or AC and DC circuit theory on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in AC and DC theory, 3 in vacuum tube and transistor theory, and 3 in technical mathematics, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in AC and DC theory, 3 in vacuum tube and transistor theory, 3 in human relations, and 3 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory and/or AC and DC circuit theory on the basis of institutional evaluation, for a minimum total of 6 semester hours. In an electronic technician apprentice training program, 3,000 clock hours of experience and 216 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-23U-002

Nike High Power Radar—Simulator Repairer

23U10

23U20

23U30

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance and repairs on Nike high-power acquisition radar, radar target simulator, and associated equipment. *Skill Level 10:* Performs highly complex maintenance, calibration and repairs on solid-state, as well as vacuum tube radar and microwave equipment; uses knowledge in basic electronics and schematic tracing to troubleshoot assemblies and circuits down to the component level; performs certain mathematical calculations during routine calibration or alignment procedures; uses common and specialized test equipment to perform diagnostic tests on radar, microwave, power supply, or computer subassemblies; uses common and specialized handtools to perform repairs or adjustments on electrical, electronic, mechanical, pneumatic and hydraulic equipment; supervises or trains maintenance and operator personnel on the proper handling or maintenance of various parts of the radar equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel and supported units; installs equipment modifications; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; assigns duties; manages maintenance schedules, inspections, and quality control; supervises inspection and maintenance teams; conducts on-the-job training programs; keeps maintenance records.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in basic electronics, 2 in electronic control devices, 3 in radar/microwave technology, 1 in digital circuits, 2 in electronic instruments, and 1 in mechanical laboratory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity/electronics, 3 in radar/microwave technology, and 1 in digital circuits, for a total of 7 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering) and 3 in a technical elective (radar/microwave theory) (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electronics, 2 in electronic control devices, 3 in radar/microwave technology, 1 in digital circuits, 2 in electronic instruments, 1 in mechanical laboratory, 3 in electronics shop practices, and 2 in maintenance management, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity/electronics, 3 in radar/microwave technology, 3 in electronics shop practices, 2 in maintenance management, 1 in digital circuits, 3 in personnel supervision, and 2 in record keeping, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), 3 in a technical elective (radar/microwave theory), and 3 for field experience in personnel management, for a total of 9 semester hours (1/80).

MOS-23V-001

HAWK MAINTENANCE CHIEF

23V50

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Supervises the maintenance of the Hawk missile system; assists in the development of the quality assurance/quality control program and supervises its implementation; interprets policy; recommends changes in policy and procedures; advises superiors; plans all work activities and operations; directs on-the-job training. NOTE: May have progressed to 23V50 from 22K40 (Hawk Missile-Launcher Repairman), 23Q40 (Hawk Fire Control Repairman), 23S40 (Hawk Pulse Radar Repairman), 23Q40 (Hawk Continuous Wave Radar Repairman), 24B40 (Hawk Continuous Wave Radar Mechanic), 24D40 (Hawk Missile-Launcher Mechanic), or 24F40 (Hawk Fire Control Mechanic).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in maintenance management, 6 for field experience in management, and 3 in industrial arts education (electronics), for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief,* 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility,* 3 additional semester hours for an internship in education, for a total of 21 semester hours. In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-23V-002

HAWK MAINTENANCE CHIEF

23V40

23V50

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises and coordinates maintenance of Hawk Missile System. *Skill Level 40:* Supervises and coordinates maintenance of Hawk Missile System, including launcher, maintenance test shop, battery control, simulator, radar, and test equipment; serves as a section chief or principal noncommissioned officer of a platoon performing missile system support maintenance; supervises and inspects activities of subordinates engaged in missile system maintenances; assists in development and supervises quality assurance quality control program; advises superiors on technical and personnel matters; assists in planning and accomplishing on-the-job training. NOTE: May have progressed to 23V40 from 22K30 (Hawk Missile and Launcher Repairer), 23Q30 (Hawk Fire Control Repairer), 23S30 (Hawk Pulse Radar Repairer), or 23T30 (Hawk Continuous Wave Radar Repairer). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer of a company performing missile systems support maintenance; or, may serve as chief instructor in a training facility. NOTE: May have progressed to 23V50 from 23V40, 24B40 (Hawk Continuous Wave Radar Mechanic), 24D40 (Hawk Missile Launcher Mechanic), or 24F40 (Hawk Fire Control System Mechanic).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance management, and 3 in public speaking, for a total of 9 semester hours. In the upper-division baccalaureate category, 2 semester hours in human relations, 3 in introduction to management, 3 for field experience in management, 3 in personnel management, and 3 in industrial education, for a total of 14 semester hours (1/80).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 2 semester hours in human relations, 3 in introduction to management, 6 for field experience in management, 3 in personnel management, and 3 in industrial arts education, for a minimum total of 17 semester hours; *if the duty assignment was maintenance chief,* 3 additional semester hours in personnel management; *if the duty assignment was chief instructor in a training facility,* 3 semester hours for an internship in education (1/80).

MOS-23W-001

NIKE MAINTENANCE CHIEF

23W50

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Supervises the maintenance of the Nike-Hercules missile system; assists in the development of the quality assurance/quality control program and supervises its implementation; interprets policy; recommends changes in policy and procedures; advises superiors; plans all work activities and operations; directs on-the-job training. NOTE: May have progressed to 23W50 from 28M50 (Anti-Ballistic Missile Maintenance Specialist), 22L40 (Nike Test Equipment Repairman), 22N40 (Nike-Hercules Missile-Launcher Repairman), 23N40 (Nike Track Radar Repairman), 23U40 (Nike High Power Radar-Simulator Repairman), 24Q40 (Nike-Hercules Fire Control Mechanic), 24U40 (Hercules Electronics Mechanic), or 26H30 (Air Defense Radar Repairman).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in maintenance management, 6 for field experience in management, and 3 in industrial arts education (electronics), for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief,* 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility,* 3 additional semester hours for an internship in education, for a total of 21 semester hours. In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-23W-002

NIKE MAINTENANCE CHIEF

23W40

23W50

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises maintenance of the Nike-Hercules missile system. *Skill Level 40:* Supervises and coordinates support level maintenance of the improved Nike Hercules system including missile, launcher control, launcher with associated equipment, radar sets, tracking station equipment, radar simulator and test equipment and devices; may serve as an instructor; principal non-commissioned officer of a platoon which provides missile system support maintenance; supervises and assists in development of quality assurance program; responsible for on-the-job training; evaluates performance of assigned personnel. NOTE: May have progressed to 23W40 from 22L30 (Nike Test Equipment Repairer), 22N30 (Nike Hercules Missile Launcher Repairer), 23N30 (Nike Track Radar Repairer), 23U30 (Nike High Power Radar Simulator Repairer), or 26H30 (Air Defense Radar Repairer). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal non-commissioned officer at battalion level or higher performing direct support or general support maintenance on the Nike system; may serve as First Sergeant of a company of approximately 90 enlisted persons; may serve as chief instructor in a training facility; may serve as chief advisor to a Reserve component unit or as chief advisor to a foreign military unit; is a top level supervisor and coordinator, experienced in troop leadership techniques, training management, and planning work production. NOTE: May progress to 23W50 from 23W40, 24Q40 (Nike Hercules Fire Control Mechanic), 24U40 (Hercules Electronics Mechanic), or 24P40 (Defense Acquisition Radar Mechanic).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in public speaking, and 3 in maintenance management, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), 3 in introduction to management, 3 in personnel management, 2 in human relations, and 3 for field experience in management, for a total of 14 semester hours (1/80).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 6 for field experience in management, 2 in human relations, and 3 for an electronics technical elective (non-engineering), for a minimum total of 17 semester hours; *if the duty position was Chief Instructor,* 3 semester hours for an internship in education; *if served as a foreign advisor,* 3 semester hours in comparative culture (1/80).

MOS-24B-001

HAWK CONTINUOUS WAVE RADAR MECHANIC

24B20

24B40

Exhibit Dates: 10/73–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Maintains and repairs Hawk continuous wave acquisition radar, continuous wave illuminator radar, high power illuminator radar, along with associated consoles, power, and test equipment. *Skill Level 20:* Performs electrical checks and adjustments on equipment; locates and corrects malfunctions; provides technical assistance in orientation, alignment, or synchronization of subassemblies and systems; performs authorized equipment modifications; completes required forms for equipment and repair parts; provides technical assistance in the conduct of operational and maintenance inspections; prepares technical reports on system equipment; provides technical assistance for setting up, taking down, and moving equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor; provides technical supervision in training programs; coordinates work activities of radar section; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; organizes and supervises maintenance and inspection teams; supervises the requisitioning and storing of supplies and repair parts.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 2 in electron devices, 3 in basic electronics, 3 in electronic instruments, and 3 in technical mathematics, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 2 in pulse circuits, 2 in radar/microwave, and 1 in antennas, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), and additional credit in AC/DC circuits and electron devices on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, 2 in pulse circuits, 2 in radar/microwave, and 1 in antennas, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), and additional credit in AC/DC circuits and electron devices on the basis of institutional evaluation. In an electronic technician apprentice training program, 3,000 clock hours of experience and 216 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-24B-002

HAWK CONTINUOUS WAVE RADAR MECHANIC

24B10

24B20

24B30

24B40

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Supervises or performs organizational maintenance on Hawk continuous wave acquisition radar, continuous wave illuminator radar, high-power illuminator radar, along with associated consoles, power, and test equipment. *Skill Level 10:* Performs electrical checks and adjustments on equipment; locates and corrects equipment malfunctions; performs organizational maintenance with authorized tools, test equipment, and parts; provides technical assistance in orientation, alignment, or synchronization of listed equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in operator training programs; provides technical assistance during emplacement of equipment; installs equipment and modifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical supervision in training programs for operator and maintenance personnel; supervises preparation of technical forms and reports; demonstrates proper maintenance and troubleshooting procedures; supervises maintenance or inspection teams. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as chief continuous wave radar mechanic at battalion or higher level; assists in supervision and coordination of maintenance activities in subordinate units.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in applied mathematics, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 3 in basic electronics, 1 in radar/microwave, and 1 in antennas, for a total of 11 semester hours (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 2 in electronic devices, 3 in electronics instruments, and 3 in applied mathematics, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 3 in basic electronics, 2 in radar/microwave, and 1 in antennas, for a total of 12 semester hours. In the upper-division baccalaureate category, credit in AC/DC circuits and electronic devices on the basis of institutional education (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 2 in electronic devices, 3 in electronics instruments, 3 in applied mathematics, 2 in maintenance management, and 3 in electronics shop practices, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 3 in basic electronics, 2 in radar/microwave, 1 in antennas, 3 in electronics shop practices, 2 in maintenance management, 3 in personnel supervision, and 2 in records and reports preparation, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial education (electronics) and 3 for field experience in personnel management, and credit in AC/DC circuits and electronic devices on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 2 in electronics devices, 3 in electronics instruments, 3 in applied mathematics, 3 in maintenance management, and 3 in electronics shop practices, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 3 in basic electronics, 2 in radar/microwave, 1 in antennas, 3 in electronics shop practices, 3 in personnel supervision, 2 in records and reports preparation, and 3 in maintenance management, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial education (electronics), 3 for field experience in personnel management, 3 in human relations, and 3 in introduction to management, and credit in AC/DC circuits and electronic devices on the basis of institutional evaluation, for a minimum total of 12 semester hours (1/80).

MOS-24C-001

Improved Hawk Firing Section Mechanic

24C20

24C40

Exhibit Dates: 10/73–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk firing section equipment. *Skill Level 20:* Performs maintenance on Improved Hawk high-powered illuminator radar, missile launching section control box, and electrical, mechanical, and hydraulic systems of the launcher and loader-transporter; inspects, test, and adjusts to specific operational levels; determines malfunctions and repairs by replacing subassembly units; assists in orientation, alignment, and synchronization of subassemblies and systems; assembles external hardware of the missile and makes prescribed tests to determine operational condition; supervises missile crewmen in transferring, handling, arming, and disarming missiles; initiates requests for repair parts, test equipment, tools, and supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line technical supervisor; establishes workloads and repair priorities; coordinates work activities with other units; demonstrates proper maintenance and troubleshooting techniques; supervises the preparation of technical reports and forms; organizes and supervises maintenance and inspection teams.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics and 3 in basic electricity, and additional credit in electronics, technical mathematics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 1 in radar/microwave, and additional credit in electronics, algebra, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 4 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, advanced standing on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in human relations, 3 in personnel supervision, and 1 in radar/microwave, and additional credit in electronics, algebra, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-24C-002

Improved Hawk Firing Section Mechanic

24C10

24C20

24C30

24C40

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on improved Hawk firing section equipment. *Skill Level 10:* Performs maintenance on Improved Hawk radar, missile launching control box, and electrical, mechanical, and hydraulic systems of the launcher, transporter, and associated equipment; determines malfunctions; performs repairs by replacing subassembly units; assists in orientation, alignment, and synchronization of equipment; assembles external hardware of missile; makes prescribed tests to determine operational condition; provides technical assistance in conduct of operational and maintenance inspections. *Skill Level 20:* Able to perform the duties required for Skill Level 10; installs equipment modifications; supervises transfer and handling of missile; provides technical training to missile crew supervisory and operational personnel in arming and disarming missiles; initiates requests for repair parts, test equipment, tools, and supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical supervision in training programs for operator and maintenance personnel; demonstrates proper maintenance and troubleshooting techniques; supervises maintenance and inspection teams; supervises the preparation of technical forms and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates organizational maintenance of Improved Hawk firing section equipment.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in basic electronics, 3 in basic electricity, and 3 in applied mathematics, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in radar/microwave, and 3 in technical mathematics, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 10 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electronics, 3 in basic electricity, 3 in applied mathematics, and 3 in electronics shop practices, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in radar/microwave, 3 in technical mathematics, 3 in electronics shop practices, 3 in personnel supervision, and 2 in records and reports preparation, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management and 3 in industrial education (electronics) (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in radar/microwave, 3 in technical mathematics, 3 in electronics shop practices, 3 in personnel supervision, 2 in records and reports preparation, and 3 in maintenance management, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management, 3 in introduction to management, 3 in human relations, and 3 in industrial education (electronics), for a total of 12 semester hours (1/80).

MOS-24D-001

Hawk Missile-Launcher Mechanic

24D20

24D40

Exhibit Dates: 10/73–1/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Performs inspections and maintenance on specialized missile equipment. *Skill Level 20:* Inspects, tests, and adjusts equipment and components to specified tolerances; identifies malfunctions in fluidic, electrical, and mechanical systems, using multimeter and test equipment designed specifically for the missile system; repairs fluidic and mechanical components using basic block diagrams and substitutes electrical and electronic components; performs a limited amount of calibration for special test sets. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a foreman and technical inspector, supervising four to six persons; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training; supervises the preparation of technical forms and reports and the requisitioning and stockage of supplies and repair parts.

Recommendation, Skill Levels 20 and 40

No recommendation because of the limited and military nature of the skills, competencies, and knowledge. In an apprentice training program in equipment repair, advanced standing only on the basis of employer or trade association performance examination because of the limited nature of the skills, competencies, and knowledge (3/75).

MOS-24D-002

HAWK MISSILE-LAUNCHER MECHANIC

24D20
24D40

Exhibit Dates: 2/76–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hawk missile and launcher. *Skill Level 20:* Performs maintenance on Hawk missile, on-missile electronic guidance control components, and mechanical, hydraulic, and electrical systems of launcher and loader-transporter; inspects, tests, and adjusts equipment and components to specified tolerances; assembles, interconnects, and tests components to determine operational condition; identifies malfunctions in electrical, mechanical, and fluidic systems, using multimeter and special-design test equipment; repairs fluidic and mechanical components, using basic block diagrams; substitutes electrical and electronic components; supervises the missile crew in installing initiators, electric power unit fuel stick, ignitors, arming devices, and safety devices; performs a limited amount of calibration for special tests sets. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line technical supervisor; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; coordinates work activities with other units; supervises the preparation of technical reports and forms; supervises the requisitioning and storing of supplies and repair parts.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity and 3 in basic electronics, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in human relations, 3 in personnel supervision, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-24D-003

HAWK MISSILE-LAUNCHER MECHANIC

24D10
24D20
24D30
24D40

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-24E-001

IMPROVED HAWK FIRE CONTROL MECHANIC

24E20
24E30
24E40

Exhibit Dates: 10/73–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk fire control equipment and engagement simulator. *Skill Level 20:* Checks and adjusts radar and associated power and test equipment; performs electrical tests and adjustments; determines malfunctions and makes repairs; provides technical assistance in orientation, alignment, or synchronization of subassemblies and systems; installs equipment modifications; prepares maintenance and supply reports and forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; checks, adjusts, and repairs Improved Hawk engagement simulator; assists in the preparation of training programs for battery crews. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as the first-line technical supervisor for Improved Hawk operators and mechanics; coordinates work activities with supporting maintenance units; demonstrates proper troubleshooting and maintenance techniques; organizes and supervises maintenance and inspection teams; supervises requisitioning and storing of supplies and repair parts.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in electronic instruments, and additional credit in electronics and algebra on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician (sound and manufacturing) apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic instruments, 3 in human relations, and 3 in personnel supervision, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). The recommendation for advanced standing in an apprentice training program is the same as that for Skill Levels 20 and 30 because additional skills are administrative and supervisory in nature (2/76).

MOS-24E-002

IMPROVED HAWK FIRE CONTROL MECHANIC

24E10
24E20
24E30
24E40

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk Fire Control equipment and engagement simulator, pulse acquisition radar, range-only-radar, and associated equipment. *Skill Level 10:* Performs checks and adjustments on Improved Hawk battery control center, pulse acquisition radar, range-only-radar, and associated equipment; localizes malfunctions and accomplishes repairs using appropriate tools, test equipment and parts; provides technical assistance in orientation, alignment, and synchronization of subassemblies and systems; assists in training operators in operator level maintenance; provides technical assistance in operational and maintenance inspections; provides technical assistance in logistics, emplacement, and helicopter rigging of listed equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance and guidance to Skill Level 10 personnel; installs electrical and electronic equipment modifications; initiates requests for repair parts, tools, test equipment and other supplies; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical supervision in training programs for operator personnel; supervises the preparation of technical forms and reports; coordinates activities with supporting maintenance units; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; supervises the requisitioning and stockage of supplies and repair parts; organizes and supervises maintenance and inspection teams. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as first-line technical supervisor for system operators and mechanics; serves as section chief of fire control mechanics; serves as chief fire control mechanic at battalion or higher level to assist in supervision and coordination of maintenance activities.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and 3 in applied mathematics, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic instruments, 3 in technical mathematics, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and 3 in electronics shop practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic instruments, 3 in technical mathematics, 3 in electronics shop practices, 3 in personnel supervision, 2 in records and reports preparation, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management and 3 in industrial education (electronics) (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate-associate degree category, 3 semester hours in basic electronics, 3 in electronic instruments, 3 in technical mathematics, 3 in personnel supervision, 3 in electronics shop practices, 2 in records and reports preparation, 3 in maintenance management, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management, 3 in introduction to management, 3 in human relations, and 3 in industrial education (electronics), for a total of 12 semester hours (1/80).

MOS-24F-001

HAWK FIRE CONTROL MECHANIC

24F20
24F30
24F40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hawk fire control equipment and engagement simulator. *Skill Level 20:* Checks and adjusts radar and associated power and test equipment; performs electrical tests and adjustments; provides technical assistance in orientation, alignment, or synchronization of subassemblies and systems; localizes malfunctions and makes repairs; installs equipment modifications; prepares maintenance and supply forms and reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; checks, adjusts, and repairs Hawk engagement simulator; assists in the preparation of training programs for battery crews. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as the first-line technical supervisor for operator and maintenance personnel; coordinates work activities with supporting maintenance units; demonstrates proper maintenance and troubleshooting techniques; supervises requisitioning and storing of supplies and repair parts; organizes and supervises maintenance and inspection teams.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in electronic instruments, and additional credit in electronics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician (sound and manufacturing) apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in technical mathematics and electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic instruments, 3 in human relations, and 3 in personnel supervision, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). The recommendation for advanced standing in an apprentice training program is the same as that for Skill Levels 20 and 30 because additional skills are administrative and supervisory in nature (2/76).

MOS-24F-002

HAWK FIRE CONTROL SYSTEM MECHANIC

24F10
24F20
24F30
24F40

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-24G-001

IMPROVED HAWK INFORMATION COORDINATION CENTRAL MECHANIC

24G20
24G40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk information and coordination equipment. *Skill Level 20:* Performs maintenance on Improved Hawk continuous wave acquisition radar, coordination central, automatic data equipment, battery terminal equipment, and associated test equipment; performs electrical checks and adjustments on equipment; assists in orientation, alignment, and synchronization of subassemblies and systems; performs equipment modifications; initiates requests for repair parts, test equipment, tools, and supplies; prepares maintenance and supply records and forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor; provides technical supervision in training programs; coordinates work activities; determines faulty work practices and demonstrates proper troubleshooting and maintenance techniques; organizes and supervises maintenance and inspection teams; supervises the requisitioning and storing of supplies and repair parts.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and additional credit in technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 2 in pulse circuits, 1 in radar/microwave, and additional credit in electronics, digital computer operation, and mathematics on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), and additional credit in AC/DC circuits and electron devices on the basis of institutional evaluation. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a construction electrician apprentice training program, advanced standing on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in human relations, 3 in personnel supervision, 2 in pulse circuits, 1 in radar/microwave, and additional credit in electronics, digital computer operation, and mathematics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), and additional credit in AC/DC circuits and electron devices on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-24G-002

Improved Hawk Information
Coordination Central Mechanic

24G10

24G20

24G30

24G40

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk information and coordination equipment. *Skill Level 10:* Performs maintenance on Improved Hawk radar, information coordination central, automatic data equipment, battery terminal equipment, and associated equipment; performs electrical checks and adjustments on equipment; localizes malfunctions and accomplishes authorized repairs; assists with technical assistance in orientation, alignment, and synchronization of equipment; provides technical assistance in conduct of operational and maintenance inspections. *Skill Level 20:* Able to perform the duties required for Skill Level 10; installs equipment modifications, initiates orders for repair parts, tools and other supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises activities of lower skill level personnel; provides supervision of on-the-job training for operator and maintenance personnel; coordinates activities with supporting maintenance units; demonstrates proper maintenance and troubleshooting techniques; supervises requisitioning and stockage of supplies and repair parts; supervises the preparation of technical forms and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates maintenance of Improved Hawk information and coordination equipment mechanics; may serve as section chief for mechanics; may serve as chief mechanic at battalion or higher level to assist in coordination of maintenance activities in subordinate units.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and 6 in applied mathematics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in microwave techniques, 3 in technical mathematics, 3 in computer mathematics, and additional credit in electronics and digital computer operations on the basis of institutional evaluation, for a minimum total of 13 semester hours (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree cagetory, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in microwave techniques, 3 in technical mathematics, 3 in computer mathematics, 3 in introduction to computers, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 16 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, 6 in applied mathematics, and 3 in electronics shop practices, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in microwave techniques, 3 in technical mathematics, 3 in computer mathematics, 3 in introduction to computers, 3 in electronics shop practices, 3 in personnel supervision, and 2 in records and reports preparation, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial education (electronics) and 3 for field experience in personnel management (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in microwave techniques, 3 in technical mathematics, 3 in computer mathematics, 3 in introduction to computers, 3 in electronics shop practices, 3 in personnel supervision, 2 in records and reports preparation, and 3 in maintenance management, for a total of 27 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial education (electronics), 3 for field experience in personnel management, 3 in introduction to management, and 3 in human relations, for a total of 12 semester hours (1/80).

MOS-24H-001

Improved Hawk Fire Control
Repairman

24H20

24H40

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs support maintenance on electronic systems of Improved Hawk fire control equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; performs initial and final checkouts and inspections of the system, assemblies, and subassemblies; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics and 3 in introduction to computer science or data processing, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In an electronic technician apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in introduction to computer science or data processing, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-24H-002

Improved Hawk Fire Control
Repairman

24H20

24H40

Exhibit Dates: 9/76–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Performs support maintenance and inspections of Improved Hawk battery control centers, including radar consoles, electronic systems, communications systems, computers, and various types of advanced electronic test instruments. *Skill Level 20:* Applies basic electronic theory and advanced circuit concepts in troubleshooting both vacuum tube and solid-state electronic systems and circuits; uses schematics and logic diagrams to trace specific problems in analog, digital, or mechanical systems; uses both electrical and mechanical hand tools when performing adjustments and making repairs; operates sophisticated test instruments such as digital multimeters, frequency counters, time-interval meters, pulse generators, sweep generators, test simulators, dual-trace dual-sweep oscilloscopes, and radar computers; frequently performs repairs and minor calibration of support test instruments; uses simple algebraic and trigonometric formulas for calculating tolerances on various electromechanical systems; logs equipment failures, repairs, and inspections; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electronics, 3 in electronics laboratory, 3 in basic algebra and trigonometry, 3 in radar circuit theory, 2 in computer circuit theory, 2 in electromechanics, 2 in instrumentation, and 1 in introduction to television, for a total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, and 3 in technical mathematics, for a total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In an electronics instrument mechanic/repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS-24H-003

IMPROVED HAWK FIRE CONTROL
REPAIRER

24H10
24H20
24H30

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance and inspections of Improved Hawk battery control centers including radar consoles, electronic systems, communications systems, computers, and various types of advanced electronic test equipment. *Skill Level 10:* Inspects, tests, and adjusts components to specific tolerances; determines shortcomings and malfunctions in electronic assemblies, subassemblies, modules, and circuit elements with common and system special-design test equipment; repairs unserviceable items by removing and replacing defective components and parts; determines serviceability and disposition of defective assemblies, subassemblies, modules, and circuit elements; performs quality control measures; serves on inspection teams; performs maintenance and repair on test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; installs electrical and electronic equipment modifications; provides technical assistance to supported units completes maintenance and supply forms. *Skill Level 30:* Able to perform duties required for Skill Level 20; supervises duties performed at preceding levels; establishes workloads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; performs initial and final type checkout and inspection of designated system items and their assemblies and subassemblies; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and 3 in applied mathematics, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and 3 in technical mathematics, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 12 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, 3 in applied mathematics, and 3 in electronic shop practices, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, 3 in technical mathematics, 3 in electronics shop practices, 3 in personnel supervision, 2 in records and reports preparation, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

MOS-24J-001

IMPROVED HAWK PULSE RADAR
REPAIRMAN

24J20
24J40

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs support maintenance on Improved Hawk pulse radars and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; performs initial and final checkouts and inspections of the system, assemblies, and subassemblies; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-24J-002

IMPROVED HAWK PULSE RADAR
REPAIRMAN

24J20
24J40

Exhibit Dates: 9/76–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Performs or supervises support maintenance on Improved Hawk pulse radars and associated equipment. *Skill Level 20:* Maintains improved pulse acquisition radar, range-only radar, test equipment, and systems associated with test equipment; inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements by using common and system special-design test equipment; determines disposition of defective assemblies, subassemblies, modules, and circuit elements; locates, removes, and replaces defective components and parts; performs initial and final check-outs; installs equipment modifications; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance on Improved Hawk pulse radars and associated equipment; establishes workloads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment, parts, and supplies; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electricity/electronics, 3 in electricity/electronics laboratory, 3 in radar circuit theory, 3 in tube and transistor circuits, and 3 in technical mathematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, and 3 in technical mathematics, for a total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In an electronics instrument mechanic/repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS-24J-003

IMPROVED HAWK PULSE RADAR REPAIRER

24J10
24J20
24J30

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises and performs maintenance on Improved Hawk missile pulse radars and associated equipment. *Skill Level 10:* Performs maintenance on electronic systems of pulse acquisition radars and pulse ranging radars of the Hawk Missile System; inspects, tests, and adjusts electronic components, modules, subassemblies, and assemblies, using common and specialized electronic test instruments; performs initial and final checkouts and inspections for the electronic portions of the radar system; replaces defective parts and does approved modifications; serves on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; installs equipment modifications and provides technical assistance to support units; prepares maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; performs initial and final checkout and inspection of the radar system and the subassemblies; supervises inspection and maintenance teams; establishes and keeps maintenance records; organizes and conducts on-the-job training programs.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in electronics test procedures, 3 in tube and transistor circuits, and 1 in microwave techniques, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronics test procedures, and 1 in microwave techniques, for a total of 13 semester hours (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in electronic test procedures, 3 in tube and transistor circuits, and 2 in microwave techniques, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronics test procedures, and 2 in microwave techniques, for a total of 14 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in electronics test procedures, 3 in tube and transistor circuits, and 3 in electronics shop practices, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronics shop practices, 3 in personnel supervision, and 2 in records and reports preparation, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

MOS-24K-001

IMPROVED HAWK CONTINUOUS WAVE
RADAR REPAIRMAN

24K20
24K40

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs support maintenance on electronic systems of Improved Hawk continuous wave radars and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; performs initial and final checkouts and inspections of the systems, assemblies, and subassemblies; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-24K-002

IMPROVED HAWK CONTINUOUS WAVE
RADAR REPAIRMAN

24K20
24K40

Exhibit Dates: 9/76–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Performs or supervises maintenance on electronic systems of Improved Hawk continuous wave radars, high-power illuminator radars, and associated equipment. *Skill Level 20:* Performs maintenance on Improved Hawk continuous wave radars, high-power illuminator radars, test equipment, mobile team shops, and associated system-peculiar portable test equipment; inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements by using common and system-design test equipment; removes and replaces defective components and parts; determines disposition of defective assemblies, subassemblies, modules, and circuit elements; performs initial and final check-outs; installs equipment modifications; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance on Improved Hawk continuous wave radars and associated equipment; establishes workloads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment and parts; organizes and conducts on-the-job training programs; supervises maintenance and inspection teams; demonstrates proper work procedures and troubleshooting techniques; keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electricity/electronics, 3 in electricity/electronics laboratory, 3 in radar circuit theory, 3 in tube and transistor circuits, and 3 in technical mathematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, and 3 in technical mathematics, for a total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In an electronics instrument mechanic/repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS-24K-003

IMPROVED HAWK CONTINUOUS WAVE RADAR REPAIRER

24K10

24K20

24K30

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on Improved Hawk continuous wave radars and associated equipment. *Skill Level 10:* Performs support maintenance on electronic systems of continuous wave radars and special high-power illuminator radars associated with the Hawk missile system; adjusts, inspects, and tests electronic assemblies, subassemblies, modules, and circuit elements, using common and special-design test equipment; performs initial and final checkouts and inspections for the electronic portions of the radar systems; performs approved modifications and serves on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; installs equipment modifications and provides technical assistance to supported units; prepares maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; performs initial and final checkout and inspection of the radar systems and their subassemblies; supervises inspection and maintenance teams; establishes and keeps maintenance records; organizes and conducts on-the-job training programs.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in electronics test procedures, 3 in tube and transistor circuits, and 1 in microwave techniques, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronics test procedures, and 1 in microwave techniques, for a total of 13 semester hours (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in electronics test procedures, 3 in tube and transistor circuits, and 2 in microwave techniques, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronics test procedures, and 2 in microwave techniques, for a total of 14 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in electronics test procedures, 3 in tube and transistor circuits, and 3 in electronics shop practices, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronics shop practices, 3 in personnel supervision, and 2 in records and reports preparation, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

MOS-24L-001

IMPROVED HAWK LAUNCHER AND MECHANICAL SYSTEMS REPAIRMAN

24L20

24L40

Exhibit Dates: 9/76-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on electrical, hydraulic, hydropneumatic, mechanical, and electromechanical portions of the Improved Hawk missile system and on the electronic systems of the Improved Hawk launcher and associated test equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines deficiencies in electronic, electrical, hydraulic, hydropneumatic, mechanical, and electromechanical assemblies, subassemblies, and circuits by using common and system special-design test equipment; removes and replaces defective components and determines their disposition; performs load testing and maintenance calibration; repairs job-related tools and equipment; installs electrical, hydraulic, hydropneumatic, mechanical, and electromechanical modifications on Improved Hawk system items; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance of electrical, mechanical, electromechanical, hydraulic, and hydropneumatic systems of the Improved Hawk missile system and of the electronics system of the Improved Hawk launcher; establishes workloads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing items; organizes and conducts on-the-job training programs; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in electromechanical systems, 3 in mechanics, 3 in hydraulics, 3 in technical mathematics, and 1 in care and use of tools, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a mimimum total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, and 3 in technical mathematics, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a mimimum total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In a wireman-electrician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a mimimum total of 21 semester hours. In the upper-divison baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS-24L-002

IMPROVED HAWK LAUNCHER AND MECHANICAL SYSTEMS REPAIRER

24L10

24L20

24L30

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the electrical, hydraulic, hydropneumatic, mechanical, and electromechanical portions of the Improved Hawk system and the electronic systems of IH Launcher. *Skill Level 10:* Inspects, tests, and adjusts to specific tolerances; determines deficiencies and electronic, electrical, hydraulic, hydropneumatic, mechanical, and electromechanical assemblies, subassemblies, and circuits with common and special-design test equipment; performs required maintenance; repairs unserviceable items by removing and replacing defective components and parts and determines their disposition; performs quality control measures; performs load testing, maintenance calibration, and repair of job related tools and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; installs electrical, hydraulic, hydropneumatic, mechanical, and electromechanical equipment modifications; provides technical assistance to supported units; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises duties performed by lower skill level personnel involving maintenance of the Improved Hawk missile and launching systems; establishes workloads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing items; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in electromechanical systems, 3 in mechanics, 3 in hydraulics, and 3 in applied mathematics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, and 3 in technical mathematics, for a total of 12 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in electromechanical systems, 3 in mechanics, 3 in hydraulics, 3 in applied mathematics, and 3 in electrical and mechanical shop practices, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, 3 in technical mathematics, 3 in electrical and mechanical shop practices, 3 in personnel supervision, and 2 in records and reports preparation, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semseter hours for field experience in personnel supervision (1/80).

MOS-24M-001

Vulcan System Mechanic

24M20
24M30
24M40

Exhibit Dates: 10/73-8/77.

Career Management Field. 27 (Combat Missile Maintenance), *subfield* 271 (Combat Missile Mechanics).

Description

Summary: Supervises or performs maintenance on Vulcan weapon system and associated equipment. *Skill Level 20:* Performs routine maintenance on the range-only radar, the rapid alerting identification display, and test, diagnostic, and measuring equipment; uses test equipment to determine malfunctioning components, parts, and accessories; initiates requests for repair parts, tools, test equipment, and other supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs maintenance on the forward area alert radar. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; provides technical supervision in training programs for operator and maintenance personnel; coordinates work activities with supporting units; demonstrates proper maintenance and troubleshooting techniques; is responsible for requisitioning and storing supplies and repair parts.

Recommendation, Skill Levels 20 and 30

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS-24M-002

Vulcan System Mechanic
(Vulcan/FAAR System Mechanic)

24M10
24M20
24M30
24M40

Exhibit Dates: 9/77-Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 272 (Light Air Defense Systems Maintenance).

Description

Summary: Supervises or performs maintenance on the Vulcan weapons system and the Forward Area Alerting Radar (FAAR) and associated equipment. *Skill Level 10:* Performs routine maintenance on range-only radar, the target display system, and test, diagnostic, and measuring equipment; maintains electro-mechanical and mechanical components associated with turret assemblies on Vulcan launch equipment; uses some basic test equipment including meters, oscilloscopes, and specialized test equipment; isolates malfunctions to the black box level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill-level personnel; assigns duties; maintains forms and records to insure proper maintenance procedures for all Chaparral systems. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes maintenance procedures; conducts technical inspections and coordinates maintenance activities.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in electronics laboratory and 2 in mechanical laboratory. In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in electronics laboratory, 2 in mechanical laboratory, 2 in maintenance management, and 3 in electronic and mechanical shop practices, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision, 3 in electronics and mechanical shop practices, 2 in maintenance management, and 2 in electronics laboratory, for a total of 9 semester hours (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in electronics laboratory, 2 in mechanical laboratory, 3 in electronics and mechanical laboratory, and 4 in maintenance management, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in electronics and mechanical shop practices, 4 in maintenance management, and 2 in electronics laboratory, for a total of 12 semester hours (1/80).

MOS-24N-001

Chaparral System Mechanic

24N20
24N30
24N40

Exhibit Dates: 10/73-8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 271 (Combat Missile Mechanics).

Description

Summary: Supervises or performs maintenance on Chaparral weapon systems and on forward area alert radar. *Skill Level 20:* Performs routine maintenance on Chaparral weapons systems, using test equipment to locate malfunctions in the assemblies and subassemblies of the systems; initiates requests for repair parts, tools, test equipment, and other supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs maintenance on Forward Area Alert Radar (FAAR). *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; provides technical supervision in training programs for operational and maintenance personnel; coordinates work activities with supporting units; demonstrates proper maintenance and troubleshooting techniques; organizes and supervises maintenance and inspection teams; is responsible for requisitioning and storing supplies and repair parts.

Recommendation, Skill Levels 20 and 30

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS-24N-002

CHAPARRAL SYSTEM MECHANIC

24N10
24N20
24N30
24N40

Exhibit Dates: 9/77-Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 272 (Light Air Defense Systems Maintenance).

Description

Summary: Supervises or performs maintenance on Chaparral weapon system and associated equipment. *Skill Level 10:* Performs routine maintenance on Chaparral weapon system and target display sets; maintains mechanical, electrical, hydraulic, pneumatic, and some electronic systems associated with the Chaparral launch equipment; uses test meters and specialized test sets to localize malfunctions to the black-box level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; assigns duties; maintains forms and records to insure proper maintenance procedures for all Chaparral systems. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes maintenance procedures; conducts technical inspections of Chaparral systems and coordinates maintenance activities.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in mechanical laboratory (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in mechanical laboratory, 3 in mechanical shop practices, and 2 in maintenance management, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision, 3 in mechanical shop practices, and 2 in maintenance management, for a total of 7 semester hours (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in mechanical laboratory, 3 in mechanical shop practices, and 4 in maintenance management, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in mechanical shop practices, and 4 in maintenance management, for a total of 10 semester hours (1/80).

MOS-24P-001

DEFENSE ACQUISITION RADAR MECHANIC

24P20
24P40

Exhibit Dates: 10/73-2/78.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 261 (Radar Mechanics).

Description

Summary: Supervises or performs maintenance of air defense acquisition radars. *Skill Level 20:* Performs maintenance on high-power acquisition radars, low-power acquisition radars, auxiliary battery acquisition radars, communications systems security devices, battery control circuits, and fire unit integration facility; performs maintenance checks with specialized test and measuring devices; locates and isolates malfunctions; inspects, tests, and replaces defective components; makes adjustments to return equipment to operating order; keeps maintenance records and prepares equipment maintenance reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities; supervises preparation and administration of maintenance records and reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and test equipment operation, and 3 in tubes and transistor circuits, for a total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical methematics, 6 in DC and AC circuits and test equipment operation, and 3 in tubes and transistor circuits, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and test equipment operation, 3 in tubes and transistor circuits, 3 in personnel supervision, and 3 in human relations, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-24P-002

DEFENSE ACQUISITION RADAR MECHANIC

24P10
24P20
24P30
24P40

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on air defense acquisition radar sets and associated equipment. *Skill Level 10:* Performs maintenance on several radar sets, including high power acquisition radar, low power acquisition radar, and auxiliary battery acquisition radar; maintains and determines operational condition of communications security devices, firing control coordination facility, and battery control circuits; uses common and specialized test equipment and measuring devices to locate and isolate malfunctions, along with circuit analysis techniques; inspects, tests, and replaces defective components; adjusts equipment to return to operating condition; knows basic electric/electronic theory, principles of solid-state-devices, and binary fundamentals. *Skill Level 20:* Able to perform the duties required for Skill Level 10; completes maintenance and supply forms; installs equipment modifications; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; coordinates activity with supporting maintenance units; supervises preparation of technical and maintenance logs, forms, records and reports; supervises the requisition of supplies and repair parts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as the chief radar mechanic at battalion or higher level; knows characteristics of equipment, repair procedures, supply management and maintenance management; supervises and coordinates maintenance activities in subordinate units.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in basic electricity and electronics, 1 in systems maintenance, and 2 in electronic systems troubleshooting, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics fundamentals, 2 in AC/DC circuit fundamentals, and 1 in electronic instruments, for a total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), and credit in electronic device fundamentals, radar principles, and circuit analysis on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity and electronics, 3 in systems maintenance, 2 in maintenance management, 3 in electronic systems troubleshooting, and 3 in electronics shop practices, for a total of 14 semester hours. In the lower-divison baccalaureate/associate degree category, 3 semester hours in electricity and electronics fundamentals, 2 in AC/DC circuit fundamentals, 3 in electronics shop practices, 1 in electronic instruments, 3 in personnel supervision, 2 in maintenance management, and 2 in records and reports preparation, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), 3 for field experience in personnel management, and credit in electronic device fundamentals, radar principles, and circuit analysis on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity and electronics, 3 in systems maintenance, 3 in electronic systems troubleshooting, 2 in supply management procedures, 3 in maintenance management, and 3 in electronics shop practices, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics fundamentals, 2 in AC/DC circuit fundamentals, 3 in electronics shop practices, 1 in electronic instruments, 3 in personnel supervision, 2 in records and reports preparation, and 3 in maintenance management, for a total of 17 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 30 (1/80).

MOS-24Q-001

Nike-Hercules Fire Control Mechanic

24Q20
24Q30
24Q40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on missile fire control equipment and radar target simulator. *Skill Level 20:* Checks and adjusts target and missile tracking and ranging radar systems, computers, multichannel data recorders, and associated battery control circuits; locates and repairs malfunctions, using common and special-design tools and test equipment; installs equipment modifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; maintains radar target simulator. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line technical supervisor; trains maintenance personnel; coordinates work activities with other maintenance units; demonstrates proper maintenance and troubleshooting techniques; organizes and supervises maintenance and inspection teams; establishes workloads and repair priorities; supervises the requisitioning and storing of repair parts and supplies.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communication systems (electronics), 1 in shop practices, and 1 in alignment techniques (video), for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in digital circuit analysis, 1 in digital computer fundamentals, 1 in electronic instruments, and 1 in transistor/tube theory, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in digital circuit analysis, 1 in digital computer fundamentals, 1 in electronic instruments, and 1 in transistor/tube theory, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation; *if the duty assignment was chief fire control mechanic,* 3 additional semester hours for field experience in management, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Levels 20 and 30 because additional skills are administrative and supervisory in nature (2/76).

MOS-24Q-002

Nike-Hercules Fire Control Mechanic

24Q10
24Q20
24Q30
24Q40

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs organizational maintenance on Nike Hercules fire control equipment and radar target simulator. *Skill Level 10:* Performs maintenance on tracking radar, range radar, missile tracking radar, data recorders, and battery control circuits; performs checks and adjustments to the component level using schematic-related troubleshooting techniques; uses standard circuit tracing equipment such as an oscilloscope, multimeter, differential voltmeter; circuits, primarily involves vacuum tubes, but some transistors and integrated circuits are also encountered. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provide technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises activities of lower skill levels; supervises the preparation of maintenance forms and reports; supervises training programs, requisition of parts or stocks for repairs; organizes and supervises maintenance and inspection teams. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates all maintenance on the Nike Hercules fire control equipment including the radar target simulator; may serve as Chief Fire Control Mechanic at battalion or higher level.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronics maintenance, and 3 in electronics fundamentals, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic fundamentals and 3 in radar operations. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering) (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronics maintenance, 3 in electronics troubleshooting, 3 in electronics shop practices, and 2 in maintenance management, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electric/electronic fundamentals, 3 in electronics maintenance, 3 in electronics troubleshooting, 3 in electronics shop practices, 2 in records and reports preparation, 2 in maintenance management, and 3 in personnel supervision, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering) and 3 for field experience in personnel management (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronics maintenance, 3 in electronics troubleshooting, 3 in electronics shop practices, and 3 in maintenance management, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electric/electronic fundamentals, 3 in electronics maintenance, 3 in electronics troubleshooting, 3 in electronics shop practices, 2 in records and reports preparation, 3 in maintenance management, 3 in personnel supervision, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), 3 for field experience in personnel management, 3 in introduction to management, and 3 in human relations, for a total of 12 semester hours (1/80).

MOS-24U-001

Hercules Electronics Mechanic

24U20
24U40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hercules missiles, airframes, and launching devices. *Skill Level 20:* Assembles, installs, maintains, and adjusts mechanical on-missile guidance control systems and associated equipment; assembles and interconnects electronic missile components; locates and repairs malfunctions, using common and special-design tools and test equipment; initiates requisitions for repair parts, tools, test equipment, and supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as the first-line technical supervisor of Hercules electronics mechanics; establishes workloads and maintenance priorities; coordinates maintenance activities with other units; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; organizes and supervises inspection and maintenance teams; supervises the preparation of technical reports and forms.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in advanced electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electricity, and 3 in technical mathematics (including trigonometry), for a total of 9 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a construction electrician apprentice training program, advanced standing on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and 3 in advanced electronics, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electricity, 3 in technical mathematics (including trigonometry), and 3 in human relations, for a total of 12 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-24U-002

Hercules Electronics Mechanic

24U10
24U20
24U30
24U40

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hercules missiles, airframes, and launch devices. *Skill Level 10:* Assembles, installs, maintains, and adjusts certain mechanical assemblies relating to on-missile guidance control; assembles and interconnects electronic missile components; localizes malfunctions, and repairs authorized components using specialized test sets; initiates requisitions for repairs of mechanical and some electronics missile subsystems; checks calibration of test sets; makes adjustments; isolates malfunctions in test sets to component level and makes repairs. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises activities of lower skill level personnel; supervises the preparation of maintenance forms and reports; supervises training programs, requisition of parts and stock for repairs; organizes and supervises maintenance and inspection teams. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates all maintenance on the Hercules missiles, airframe and launch devices; may serve as Chief Electronics Mechanic at battalion or higher level.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronic maintenance, and 3 in electronics troubleshooting, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronics maintenance, 3 in electronics troubleshooting, 2 in maintenance management, and 3 in electronics shop practices, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals, 2 in maintenance management, 3 in personnel supervision, 3 in electronics shop practices, and 2 in records and reports preparation, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electrical/electronic fundamentals, 3 in electronics maintenance, 3 in electronics troubleshooting, 3 in maintenance management, and 3 in electronics shop practices, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals, 3 in maintenance management, 3 in personnel supervision, 3 in electronics shop practices, and 2 in records and reports preparation, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management, 3 in introduction to management, and 3 in human relations, for a total of 9 semester hours (1/80).

MOS-24V-001

Improved Hawk Maintenance Chief

24V50

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Supervises the maintenance of the Improved Hawk missile system; assists in the development of the quality assurance/quality control program and supervises its implementation; interprets policy; recommends changes in policy and procedures; advises superiors on all personnel matters; plans all work activities and operations; directs on-the-job training. NOTE: May have progressed to 24V50 from Skill Level 40 of any Improved Hawk mechanic or repairman MOS.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in maintenance management, 3 in industrial arts education (electronics) and 6 for field experience in management, for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief,* 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility,* 3 additional semester hours for an internship in education, for a total of 21 semester hours (2/76).

MOS-24V-002

Improved Hawk Maintenance Chief

24V50

Exhibit Dates: 9/76–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Supervises and coordinates maintenance of Improved Hawk missile system, including launcher; assists in the development of the quality control program and supervises its implementation; interprets policies and procedures; advises superiors on technical and personnel matters; plans work activities and operations; assists in planning and accomplishing on-the-job training; directs and coordinates the administration of the unit to which assigned; assists company commander with inspections, observes discrepancies, and initiates appropriate corrective action. Note: May have progressed to 24V50 from Skill Level 40 of any Improved Hawk mechanic or repairman MOS.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in supervision and leadership, 3 in maintenance management, 3 in industrial arts education, and 6 for field experience in management, for a minimum total of 18 semester hours; *if the duty assignment was chief instructor in a training facility,* 3 additional semester hours for an internship in education, for a total of 21 semester hours (5/77).

MOS-24V-003

Improved Hawk Maintenance Chief

24V40
24V50

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises and coordinates maintenance of Improved Hawk system. *Skill Level 40:* Supervises and coordinates maintenance of Improved Hawk system, including launcher, radar, battery control, information coordination, simulator station, test equipment and associated training equipment; serves as a section chief or principal noncommissioned officer of platoon performing missile system support maintenance; supervises and inspects activities of subordinates engaged in missile system maintenance; assists in development and supervises quality assurance and quality control programs; advises superiors on technical and personnel matters; assists in planning and accomplishing on-the-job training. Note: May have progressed to 24V40 from 22K30 (Hawk Missile and Launcher Repairer), 23Q30 (Hawk Fire Control Repairer), 22S30 (Hawk Pulse Radar Repairer), or 23T30 (Hawk Continuous Wave Radar Repairer). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as maintenance chief in unit at battalion level or higher, or serves as chief instructor in a training facility; may serve as first sergeant of a company. Note: May have progressed to 24V50 from 24V40, 24B40 (Hawk Continuous Wave Radar Mechanic), 24D40 (Hawk Missile Launcher Mechanic), 24F40 (Hawk Fire Control System Mechanic), or 23V50 (Hawk Maintenance Chief).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance management, and 3 in public speaking, for a total of 9 semester hours. In the upper-division baccalaureate category, 2 semester hours in human relations, 3 in introduction to management, 3 for field experience in management, 3 in industrial arts education, and 3 in personnel management, for a total of 14 semester hours (1/80).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 2 semester hours in human relations, 3 in introduction to management, 6 for field experience in management, 3 in industrial arts education, and 3 in personnel management, for a minimum total of 17 semester hours; *if the duty assignment was maintenance chief,* 3 additional semester hours in personnel management; *if the duty assignment was chief instructor in a training facility,* 3 additional semester hours for an internship in education (1/80).

MOS-25D-001

BIRDIE REPAIRMAN

25D20

25D40

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 25D was discontinued).

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Supervises or performs support maintenance on battery integration radar display equipment (BIRDIE) and associated radar data processing equipment (RDPE). *Skill Level 20:* Troubleshoots circuitry; conducts lamp tests on test panel, replaces indicators, substitutes circuit packages; repairs or replaces defective test panel internal circuitry; troubleshoots and aligns data link system; test operates monitor console; adjusts deflection presentations, offset functions, and range marker accuracy; adjusts sweep and tag amplifiers for zero and test voltages, using portable oscilloscope and test panel; aligns analog subsystem by measuring and adjusting amplitude and phase; adjusts sweep resolver to align servomechanism; maintains air conditioners, test equipment, and tools. *Skill Level 40:* Able to perform the duties required for Skill Level 20; coordinates work activities with equipment operators and fire distribution terminal equipment repairmen; is responsible for the preparation of technical and administration records and reports; prepares, plans, and schedules work shifts and assignments; observes, corrects, instructs, and supervises subordinate personnel in proper maintenance techniques and procedures; diagnoses complex equipment malfunctions.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics (including AC and DC circuits and use of test equipment), 3 in technical mathematics, 1 in digital circuits, and additional credit in electronics, mathematics, and computer science on the basis of institutional evaluation, for a minimum total of 10 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics (including AC and DC circuits and use of test equipment), 3 in technical mathematics, 1 in digital circuits, 3 in human relations, 3 in maintenance supervision, 3 for field experience in management, and additional credit in electronics, mathematics, and computer science on the basis of institutional evaluation, for a minimum total of 19 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-25G-001

MOBILE ADCP MONITOR REPAIRMAN

25G20

25G40

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 25G was discontinued.)

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Maintains weapons monitoring center and associated mobile monitor equipment. *Skill Level 20:* Troubleshoots and repairs or replaces analog, digital, and analog-digital interface circuits; repairs or replaces monitor equipment components, such as buffers, magnetic drum and memory read-write amplifiers, display generators, consoles, cathode ray displays, radar data converters, data links, sequencers, computers, communications, and power supplies; uses oscilloscopes, digital testers, signal generators, transistor testers, tube testers, frequency meters, electronic voltmeters, and multimeters; performs field maintenance on test equipment, air conditioners, and equipment vans; modifies equipment to work order specifications. *Skill Level 40:* Prepares, plans, and schedules work shifts and assignments; observes, corrects, and instructs personnel in proper maintenance techniques and procedures; advises and assists repair personnel in solving complex maintenance problems; prepares technical and administrative records and reports. NOTE: May have progressed to 25G40 from either 25G20 or 25H20 (Radar Data Processing Equipment Repairman).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in basic electronics (including DC and AC circuits and use of test equipment), 3 in tube and transistor circuits, and 3 in digital circuits, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in basic electronics (including DC and AC circuits and use of test equipment), 3 in tube and transistor circuits, and 3 in digital circuits for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in basic electronics (DC and AC circuits and use of test equipment), 3 in tube and transistor circuits, 3 in digital circuits, 3 in human relations, 3 in maintenance supervision, and 3 for field experience in management, for a total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-25H-001

RADAR DATA PROCESSING EQUIPMENT REPAIRMAN

25H20

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 25H was discontinued.)

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Troubleshoots, diagnoses malfunctions, and repairs radar data processing and associated mobile monitoring equipment, such as buffers, magnetic drum and memory read-write amplifiers, display generators, digilogs, cathode ray displays and associated circuitry, consoles, data links, sequencers, remote data controls, radar data information circuits, communications, and power supplies; uses block diagrams, schematics, wire run charts and electronic test equipment; modifies equipment to work order specifications; maintains tools, test equipment, air conditioners, and equipment vans; keeps maintenance records; requisitions parts and subassemblies.

Recommendation

In the vocational certificate category, 6 semester hours in basic electronics, 6 in mathematics and trigonometry, 3 in digital circuits, 3 in tube and transistor circuits, and additional credit in basic electronics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in technical mathematics, 3 in digital circuits, 3 in tube and transistor circuits, and additional credit in computer technology on the basis of institutional evaluation, for a minimum total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-25J-001

OPERATIONS CENTRAL REPAIRMAN (OC-CDG REPAIRMAN)

25J20

25J40

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Supervises or performs support maintenance on operations central. *Skill Level 20:* Diagnoses malfunctions; locates defects; repairs and replaces components, including binary counters, relays, digital card assemblies, vacuum tubes, cathode ray tubes, summing network circuits, power supplies, and associated regulation circuits; performs inspections and conducts system tests; studies and interprets technical manuals, schematics and wiring diagrams; organizes troubleshooting and maintenance procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises repair activities; observes, corrects, and instructs subordinates in proper maintenance techniques and procedures; coordinates maintenance functions with supported units; prepares records and reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in direct current, 3 in alternating current, 6 in technical mathematics, 3 in tube and transistor circuits, and 3 in digital circuits, for a total of 21 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in direct current, 3 in alternating current, 6 in technical mathematics, 3 in tube and transistor circuits, 3 in digital circuits, 3 in human relations, 3 in maintenance supervision, and 3 for field experience in management, for a total of 30 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-25J-002

Operations Central Repairer

25J10
25J20
25J30
25J40

Exhibit Dates: 3/78–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 237 (Fire Distributing Systems Repair).

Description

Summary: Supervises and performs maintenance on operations central. *Skill Level 10:* Performs full range of maintenance on operations central system; troubleshoots equipment and circuitry; diagnoses malfunctions and locates defects; repairs or replaces components including binary counters, relays, digital card assemblies, vacuum tube amplifiers, cathode ray tubes, circuits, power supplies, and associated regulation circuits; test operates system; conducts functional and system test, utilizing common and special test equipment; uses technical material, block diagrams, schematics, and charts to organize troubleshooting procedures and techniques; traces and tests circuits for malfunctioning components using oscilloscopes, multimeters, tube testers, and digital element testers; disassembles and repairs chassis and assemblies replacing defective circuit elements; tests repaired chassis and assemblies to ensure proper operations; performs user maintenance on tools and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; installs system electrical/electronic equipment modifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises duties of lower skill level personnel; observes, corrects, and instructs subordinates in proper maintenance techniques and procedures; prepares or supervises preparation of maintenance and administrative records and reports; advises and assists repair personnel on more difficult phases of maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as senior instructor in a training facility.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in basic electronics, 3 in AC theory, 3 in DC theory, 6 in applied mathematics, 3 in transistor circuits, and 3 in digital circuits, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC theory, 3 in DC theory, 3 in technical mathematics, 3 in computer mathematics, 3 in transistor circuits, and 3 in digital circuits, for a total of 21 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electronics, 3 in AC theory, 3 in DC theory, 6 in applied mathematics, 3 in transistor circuits, 3 in digital circuits, 2 in maintenance management, and 3 in electronics shop practices, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC theory, 3 in DC theory, 3 in technical mathematics, 3 in computer mathematics, 3 in transistor circuits, 3 in digital circuits, 3 in electronics shop practices, 2 in maintenance management, 2 in records and reports preparation, and 3 in personnel supervision, for a total of 31 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel supervision and 3 in industrial education (electronics) (1/80).

Recommendation, Skill Level 40

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel supervision, 3 in industrial education (electronics), and 3 for a practicum in education, for a total of 9 semester hours (1/80).

MOS-25K-001

AN/TSQ-51 System Repairman/ Maintenance Chief

25K20
25K40
25K50

Exhibit Dates: 9/75–2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Supervises or performs support maintenance on the Air Defense Command and Control System (AN/TSQ-51). *Skill Level 20:* Performs full range of maintenance on display consoles, display and signal generation equipment, radar integration and video processing equipment, and general-purpose computers; troubleshoots equipment circuitry; diagnoses malfunctions and locates defects; repairs or replaces components in system; test-operates system; studies and interprets technical material, diagrams, computer programs, and interconnection lists; modifies system and components. *Skill Level 40:* Able to perform the duties required for Skill Level 20 and provides technical guidance to Skill Level 20 personnel; supervises maintenance activities; schedules work shifts and assignments; prepares technical and administrative records and reports. *Skill Level 50:* Able to perform the duties required for 25K40, 25D40 (BIRDIE Repairman), 25G40 (Mobile ADCP Monitor Repairman), or 25J40 (Operations Central Repairman); supervises fire distribution system maintenance unit at brigade or comparable level; supervises tactical movements of mobile fire distribution system; coordinates installation of equipment; handles classified material; diagnoses and determines causes of unusual or recurrent malfunctions; prepares reports and makes recommendations for modification of components; serves as chief instructor in a training facility.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in direct current, 3 in alternating current, 3 in basic electronics, 3 in introduction to computer science, 3 in technical mathematics (including algebra and trigonometry), and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in direct current, 3 in alternating current, 3 in basic electronics, 3 in introduction to computer science, 3 in technical mathematics (including algebra and trigonometry), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 3 in industrial arts education (electronics), and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 in introduction to management, 3 in maintenance management, 3 in human relations and 6 for field experience in management, for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief,* 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility,* 3 additional semester hours for an internship in education, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-25K-002

AN/TSQ-51 SYSTEM REPAIRER/MAINTENANCE CHIEF

25K10
25K20
25K30
25K40
25K50

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-25L-001

AN/TSQ-73 AIR DEFENSE ARTILLERY COMMAND AND CONTROL SYSTEM OPERATOR/REPAIRER

25L10
25L20
25L30
25L40

Exhibit Dates: 9/77–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 237 (Fire Distribution Systems Repair).

Description

Summary: Supervises, operates, and performs maintenance on Air Defense Command and Control System (AN/TSQ-73). *Skill Level 10:* Operates the command and control system in the collection, evaluation, and distribution of target data to air defense artillery fire units; operates general purpose target display systems and communication stations; monitors display status readouts to ensure correct target identification; although this skill level indicates primarily operator duties, maintenance skills are being developed; diagnostic procedures are, in general, limited to programmed diagnostic checks. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs full range of maintenance on display consoles, power supplies, communications equipment, general purpose computers, and peripheral devices; provides technical and operational assistance to Skill Level 10 personnel; removes and replaces faulty assemblies and circuit cards. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to lower skill level personnel in accomplishment of duties; able to detect and replace defective individual components; supervises on-the-job training and all operation/repair activities of subordinate personnel. *Skill Level 40:* Supervises and inspects overall organizational maintenance of the air defense command and control system.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in basic electricity, and 3 in applied mathematics, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, and additional credit in electronics and digital computer operations on the basis of institutional evaluation, for a minimum total of 9 semester hours (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in applied mathematics, and 3 in electronics test procedures, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, and 3 in electronics test procedures, and additional credit in electronics and digital computer operations on the basis of institutional evaluation, for a minimum total of 12 semester hours (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in applied mathematics, 3 in electronics test procedures, 2 in maintenance management, 3 in electronic shop practices, and 3 in introduction to computers, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, 3 in electronics test procedures, 3 in introduction to computer science, 3 in electronics shop practices, 3 in personnel supervision, and 2 in maintenance management, and additional credit in electronics and digital computer operations on the basis of institutional evaluation, for a minimum total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel supervision (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in applied mathematics, 3 in electronics test procedures, 3 in maintenance management, 3 in electronics shop practices, and 3 in introduction to computers, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, 3 in electronics test procedures, 3 in introduction to computer science, 3 in electronics shop practices, 3 in personnel supervision, and 3 in maintenance management, and additional credit in electronics and digital computer operations on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel supervision, 3 in introduction to management, and 3 in human relations, for a total of 9 semester hours (1/80).

MOS-26B-001

WEAPONS SUPPORT RADAR REPAIRMAN

26B20
26B30

Exhibit Dates: 10/73–2/78.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Summary: Performs maintenance on weapons support radar and associated equipment. *Skill Level 20:* Uses hand tools and test and measuring equipment to detect sources of malfunctions in weapons support radars; interprets schematic diagrams and technical material; replaces faulty components; adjusts operating radars and associated equipment for maximum performance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; adjusts recorders, relays, controls, and power units; determines the extent of required maintenance; makes comparison checks of repaired equipment with test standards; keeps work logs; prepares supply requisitions.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and test equipment operation, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-26B-002

WEAPONS SUPPORT RADAR REPAIRER

26B10
26B20

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications—Electronics Maintenance).

Description

Summary: Performs maintenance on weapons support radar, meteorological and associated equipment. *Skill Level 10:* Performs equipment serviceability criteria checks; maintains logs and records; replaces and repairs faulty components; uses hand tools and test measuring equipment to detect sources of malfunctions; interprets schematic diagrams and technical materials; adjusts operating radars, meteorological and associated equipment for maximum performance; tests, operates, and aligns repaired equipment to insure operation conforms to standards. *Skill Level 20:* Able to perform the duties required for Skill Level 10; tests and adjusts recorders, relays, controls and power units; determines the extent of required maintenance; makes comparison checks of repaired equipment with test standards; keeps working logs; prepares supply requisitions.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 6 in DC/AC circuits, 3 in tube and transistor circuits, and 3 in radar, for a total of 15 semester hours (10/79).

MOS-26C-001

COMBAT AREA SURVEILLANCE RADAR REPAIRMAN

26C20

Exhibit Dates: 10/74–8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Maintains ground surveillance and light air defense Doppler radars and associated equipment; uses voltmeters, ohmmeters, signal generators, oscilloscopes, and other testing devices to localize and isolate source of malfunction; determines extent of required maintenance; replaces faulty components, including vacuum tubes, resistors, capacitors, and multivibrators; adjusts relays, dials, and controls; applies electrical theory to series and parallel circuitry motors and generators; interprets circuit diagrams, block diagrams, schematics, and technical manuals.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-26C-002

COMBAT AREA SURVEILLANCE RADAR REPAIRER

26C20
26C30
26C40

Exhibit Dates: 9/77-2/78.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Summary: Maintains ground surveillance equipment and light air-defense pulse Doppler radars and associated equipment. *Skill Level 20:* Makes detailed tests through stages of equipment, using voltmeters, ohmmeters, signal generators, oscilloscopes, and other testing devices to localize and isolate source of malfunctions; replaces faulty components, including vacuum tubes, resistors, capacitors, and multivibrators; adjusts relays, dials, and controls, using common or specialized hand tools; maintains tools and test equipment in operating condition; test-operates, aligns, and checks repaired equipment with test standards; applies electrical theory to series and parallel circuitry, motors, and generators; applies servo, timing, and gating circuitry to light air-defense and ground surveillance radars; aligns radar transmitting and receiving chassis; interprets circuit diagrams, block diagrams, schematics and technical manuals; troubleshoots malfunctioning equipment by sectionalization and isolation of malfunction to individual components or associated group of components. *Skill Level 30:* Able to perform the duties required for Skill Level 20; checks maintenance performed by Skill Level 20 personnel for adequacy and suitability; inspects radar systems and components for wear, evidence of damage, and indications of breakdown; test-operates repaired nonintegrated radar and equipment with measuring devices, special tools, and test equipment; assists in diagnosis of complex malfunctions; insures that completed repairs comply with prescribed standards; recognizes electronic countermeasures and interference problems. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises radar repair personnel engaged in maintenance of nonintegrated radar and associated equipment; organizes and supervises radar repair teams; plans, organizes, and supervises operations of a repair maintenance shop; establishes work priorities; supervises and assists in making complex authorized modifications on nonintegrated radar and associated equipment; interprets complex specification, circuit, schematic, and cable diagrams; determines technical operating difficulties and corrective actions necessary from oscilloscope wave analyses and signal training on schematic or circuit diagrams; conducts on-the-job training. NOTE: May have progressed to 26C40 from 26C20 or 26C30.

Recommendation, Skill Levels 20 and 30

In the vocational certificate or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity, 3 in radar, 3 in applied mathematics, and 3 in use and care of tools and test equipment, for a total of 15 semester hours (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity, 3 in radar, 3 in applied mathematics, 3 in use and care of tools and test equipment, 3 in human relations, 3 in personnel supervision, and 3 in shop management, for a total of 24 semester hours (5/78).

MOS-26C-003

COMBAT AREA SURVEILLANCE RADAR REPAIRER

26C10
26C20
26C30

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Maintains ground surveillance equipment and light air-defense pulse Doppler radars and associated equipment. *Skill Level 10:* Makes detailed tests through stages of equipment, using voltmeters, ohmmeters, signal generators, oscilloscopes, and other testing devices to localize and isolate source of malfunctions; replaces faulty components, including vacuum tubes, resistors, capacitors, and multivibrators; adjusts relays, dials, and controls, using common or specialized hand tools; maintains tools and test equipment in operating condition; test-operates, aligns, and checks repaired equipment with test standards; applies electrical theory to series and parallel circuitry, motors, and generators; applies servo, timing, and gating circuitry to light air-defense and ground surveillance radars; aligns radar transmitting and receiving chassis; interprets circuit diagrams, block diagrams, schematics and technical manuals; troubleshoots malfunctioning equipment by sectionalization and isolation of malfunction to individual components or associated group of components. *Skill Level 20:* Able to perform the duties required for Skill Level 10; checks maintenance performed by Skill Level 10 personnel for adequacy and suitability; inspects radar systems and components for wear, evidence of damage, and indications of breakdown; test-operates repaired nonintegrated radar and equipment with measuring devices, special tools, and test equipment; assists in diagnosis of complex malfunctions; insures that completed repairs comply with prescribed standards; recognizes electronic countermeasures and interference problems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises radar repair personnel engaged in maintenance of nonintegrated radar and associated equipment; organizes and supervises radar repair teams; plans, organizes, and supervises operations of a repair maintenance shop; astablishes work priorities; supervises and assists in making complex authorized modifications on nonintegrated radar and associated equipment; interprets complex specification, circuit, schematic, and cable diagrams; determines technical operating difficulties and corrective actions necessary from oscilloscope wave analyses and signal tracing on schematic or circuit diagrams; conducts on-the-job training. NOTE: May have progressed to 26C30 from 26C20 or 26B20 (Weapons Support Radar Repairer).

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 3 in AC laboratory practices, 3 in very high frequency (VHF) techniques, and 6 in troubleshooting techniques, for a total of 15 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 3 in AC laboratory practices, 3 in very high frequency (VHF) techniques, 6 in troubleshooting techniques, and 3 in personnel supervision, for a total of 18 semester hours (10/79).

MOS-26D-001

GROUND CONTROL APPROACH RADAR REPAIRMAN

26D20

Exhibit Dates: 10/73-8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Inspects, tests, and repairs ground control radar equipment at field and depot level; utilizes test equipment such as multimeters, electronic voltmeters, oscilloscopes, signal generators, echo boxes, and other test equipment to troubleshoot radar systems to the component level; replaces faulty components, including vacuum tubes, transistors, resistors, and capacitors; adjusts relays, dials, and controls; adjusts and aligns equipment to specified performance levels; interprets circuit diagrams, block diagrams, schematics, and technical manuals.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-26D-002

GROUND CONTROL APPROACH RADAR REPAIRER

26D10
26D20
26D30

Exhibit Dates: 9/77-Present.

Career Management Field: 28 (Aviation Communications—Electronics).

Description

Summary: Maintains ground control approach radar systems and associated equipment. *Skill Level 10:* Localizes and diagnoses causes of equipment malfunction or nonfunction; tests and aligns equipment to insure maximum efficiency; replaces faulty components and parts; performs adjustments after installation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; maintains equipment records; makes detailed tests through stages of malfunctioning equipment, using voltmeters, ohmmeters, echo boxes, signal generators, and other testing devices; determines the cause of malfunction and extent of maintenance; adjusts relays, dials, and controls; test-operates, aligns, and performs comparison checks on repaired equipment with test standards; performs modification work orders; keeps tools and test equipment in operating condition. *Skill Level 30:* Able to perform the duties required for Skill Level 20; keeps work logs; prepares supply requisitions; aligns radar transmitting and receiving chassis; installs ground control approach radar systems; uses sectionalization, localization, and isolation of malfunction in troubleshooting; repairs faulty components; uses safety precautions when working around high voltages; authorizes acquisitions of spare parts, supply stock, and technical literature.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in applied mathematics, and 3 in radar, for a total of 9 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity, 3 in applied mathematics, 3 in radar, and 3 in use and care of tools and test equipment, for a total of 15 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity, 3 in applied mathematics, 3 in radar, 3 in use and care of tools and test equipment, 1 for field experience in management, and additional credit in basic electricity and radar on the basis of institutional evaluation, for a minimum total of 16 semester hours (5/78).

MOS-26E-001

AERIAL SURVEILLANCE SENSOR REPAIRER

26E10
26E20
26E30

Exhibit Dates: 9/77-Present.

Career Management Field: 28 (Aviation Communications-Electronics).

Description

Summary: Maintains aerial surveillance systems employed in the OV-1D (MOHAWK) aircraft, associated data link, and ground receiving and processing components. *Skill Level 10:* Tests, troubleshoots, aligns, and repairs equipment using conventional and special purpose electronic testing and diagnostic equipment and hand tools; maintains conventional and special purpose test equipment; employs special handling techniques for delicate and touch-sensitive devices such as photo lens, optic reflectors, film exposure, and processing devices; reads and analyzes electrical/electronic block/detailed schematic diagrams; reads and analyzes mechanical assembly diagrams; maintains technical reference library on aerial surveillance system. *Skill Level 20:* Able to perform the duties required for Skill Level 10; modifies and records aerial surveillance modifications in accordance with modification work orders; maintains maintenance forms and records; requisitions parts and supplies; maintains selected items of special purpose test equipment; provides assistance to Skill Level 10 personnel in diagnoses of complex maintenance problems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; insures that proper parts and supply inventories are maintained; supervises personnel engaged in the maintenance of aerial surveillance equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electricity, 3 in shop mathematics, and 3 in use and care of tools and test equipment, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in technical mathematics, 3 in basic instrumentation, and 3 in use and care of tools and test equipment, for a total of 12 semester hours (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electricity, 3 in shop mathematics, and 3 in use and care of tools and test equipment, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity, 3 in technical mathematics, 3 in basic instrumentation, and 3 in use and care of tools and test equipment, for a total of 15 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity, 3 in technical mathematics, 3 in basic instrumentation, 3 in use and care of tools and test equipment, and 1 in personnel supervision, for a total of 16 semester hours (5/78).

MOS-26H-001

AIR DEFENSE RADAR REPAIRMAN

26H20
26H30

Exhibit Dates: 10/73-2/78.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Performs maintenance on air defense radars and associated equipment, including height, azimuth, and distance finding radars, servo, data transmission systems, and computers. *Skill Level 20:* Keeps tools and test equipment in operating condition; makes detailed tests of operating stages of the equipment, using the voltmeter, ohmmeter, echo box, signal generator, and oscilloscope; determines causes of malfunctions and replaces faulty components; test-operates, aligns, and comparison-checks repaired equipment with test standards; performs modification work orders; interprets circuit diagrams, schematics, and technical manuals; troubleshoots by sectionalization, localization, and isolation, performs servo, timing, and gating circuitry analysis. *Skill Level 30:* Able to perform the duties required for Skill Level 20; maintains specialized air defense radars.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in technical mathematics, 3 in basic electronics, 1 in shop practices, and 1 in use and care of tools and test equipment, and additional credit in advanced electronics on the basis of institutional evaluation, for a minimum total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, and 1 in transistor/tube theory, and additional credit in computer science on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-26H-002

AIR DEFENSE RADAR REPAIRER

26H10
26H20
26H30

Exhibit Dates: 3/78-Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance and repairs on air defense radars and associated equipment, including height, azimuth, and distance-finding radars, servo, data transmission systems, and computers. *Skill Level 10:* Performs highly complex repairs on solid-state, integrated circuit, and vacuum tube radar and associated equipment; provides repair support and advice for various radar maintenance groups; uses advanced as well as basic electronics and schematic tracing to troubleshoot systems and subassemblies down to the component level; performs certain mathematical calculations during routine calibration or alignment procedures; uses common and advanced industrial type test equipment as well as specialized test sets to diagnose system and subassembly failures; uses common and specialized hand tools to perform repairs, adjustments, or modifications on radar or associated equipment; may train maintenance and operator personnel on the proper handling or maintenance of specified radar equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; updates knowledge of advanced modifications being performed on existing radar equipment through on-the-job training or by attending workshops. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; assigns duties; manages maintenance schedules, inspections, and quality control; supervises inspection and maintenance teams; conducts on-the-job training; keeps maintenance records.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electronics, 3 in electronic control devices, 3 in radar/microwave technology, 2 in technical mathematics, 1 in electronic instruments, and 1 in digital circuitry, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 3 in radar/microwave technology, and 1 in digital circuitry, for a total of 7 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering) and 3 in a radar/microwave technical elective (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 3 in electronic control devices, 3 in radar/microwave technology, 3 in digital circuitry, 2 in technical mathematics, and 3 in electronic instruments, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 3 in radar/microwave technology, 1 in digital circuitry, and 3 in personnel supervision, for a total of 10 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 10 (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electronics, 3 in electronic control devices, 3 in radar/microwave technology, 3 in digital circuitry, 2 in technical mathematics, 3 in electronic instruments, and 3 in maintenance management, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 3 in radar/microwave technology, 1 in digital circuitry, 3 in personnel supervision, and 3 in maintenance management, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non-engineering), 3 in a radar/microwave technical elective, and 3 for field experience in personnel supervision, for a total of 9 semester hours (1/80).

MOS-26K-001

Electronic Warfare Equipment
Repairman

26K20

26K40

Exhibit Dates: 10/73-8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Summary: Performs field and depot maintenance on electronic systems used for countermeasures and warfare support. *Skill Level 20:* Uses test equipment such as multimeters, electronic voltmeters, oscilloscopes, signal generators, and other electronic test equipment to troubleshoot electronic equipment to the component level; determines if equipment meets original specifications after repair; dismantles and repairs circuit wiring; replaces parts, including vacuum tubes, transistors, resistors, capacitors, and printed circuit cards; adjusts relays, dials, and controls; performs maintenance on electrical generators, amplydines, and selsyn motors; interprets complex circuit diagrams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel by scheduling work assignments and loads, evaluating personnel performance, preparing technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, and 3 in tube and transistor circuits, for a total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, and 3 in tube and transistor circuits, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in maintenance supervision, 3 in human relations, and 3 for field experience in management, for a total of 24 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-26K-002

Aerial Electronic Warning Defense
Equipment Repairer

26K10

26K20

26K30

Exhibit Dates: 9/77-Present. Pending evaluation.

MOS-26L-001

Tactical Microwave Systems
Repairman

26L10

26L20

26L40

Exhibit Dates: 10/73-2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Performs installations, operational adjustments, and maintenance of line-of-sight microwave and troposcatter radio and multiplexing equipment, and related power equipment; applies common basic electronics theory and schematic-reading skills in interpreting circuit functions and specifications; uses common and specialized tools and multimeters in performing operational checks and in diagnosing troubles in microwave equipment; performs preventive maintenance of equipment, adjusts, lubricates, and cleans electrical and mechanical components; applies safety precautions when working around high voltages and performs emergency action in the event of injury; prepares and keeps records for prescribed equipment load lists. *Skill Level 10:* Installs and operates tactical line-of-sight microwave and troposcatter radio and multiplexing equipment and related power equipment; performs operational tests on equipment; follows safety measures and provides first aid when necessary; uses tools and multimeters in performing preventive maintenance procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and performs complex maintenance of tactical microwave radio equipment; uses specified tools and test instruments in diagnosing and repairing equipment; prepares and keeps maintenance and operational logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation, operation, and maintenance of tactical microwave communications systems; prepares technical and administrative reports; supervises, coordinates, or conducts training programs; normally supervises 5-8 persons.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 6 semester hours in basic AC/DC electronics theory and laboratory, 6 in radio frequency circuit systems and functions, 2 in microwave communications, 1 in high frequency amplifier circuits and devices, 1 in elementary algebra, and 1 in safety and first aid, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in radio/microwave communications, and 1 in safety and first aid, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for a technical elective and 3 in industrial arts. In an electronic technician or communications technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in radio/microwave communications, 1 in safety and first aid, 3 in introduction to management, and 3 in human relations, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours for a technical elective, 3 in industrial arts, and 3 for field experience in management, for a total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for skill Levels 10 and 20 because additional skills are administrative and supervisory in nature (3/76).

MOS-26L-002

Tactical Microwave Systems Repairer

26L10
26L20
26L30
26L40

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Supervises or performs installation, operational adjustments, repair and maintenance of microwave and communication radio, multiplex systems, and related power equipment. *Skill Level 10:* Installs and operates line-of-sight microwave and communication radio, multiplexing equipment, and power supply equipment; applies basic electronic theory and schematic-reading skills for circuit functions and specifications; uses specialized tools, multimeters, and oscilloscopes; aligns and adjusts klystrons, magnetrons, and traveling wave tubes; repairs, reassembles, and tests components; computes voltage, amperage, and resistance factors; diagnoses and repairs multiplexing and pulse code modulation equipment; performs operational tests on equipment; aligns and adjusts equipment; adjusts high power amplifier, parametric amplifiers, and receivers; repairs circuit wiring; reassembles, replaces and test-operates components; establishes and maintains records of equipment repair; applies safety precautions when working with high voltage and performs emergency action in the event of injury. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; ensures that proper procedures are followed in maintenance and repair; requisitions and maintains spare parts. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the installation and maintenance of microwave communications radio systems and multiplex equipment; prepares schedules and work assignments; ensures that proper maintenance procedures are followed; assists in preparation of radio system profile charts and maintenance plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises installation and maintenance of microwave communications radio systems and multiplex equipment; supervises eight or more persons in a shop or section engaged in operation or maintenance functions; coordinates installation of new or replacement equipment; supervises training programs; prepares radio frequency charts and communications systems diagrams; evaluates the efficiency and capability of lower skill level personnel.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 6 semester hours in AC/DC electronic theory and laboratory, 6 in radio frequency circuit systems and functions, 2 in microwave communications, 1 in high frequency amplifier circuits and devices, 1 in industrial safety procedures, and 1 in elementary algebra, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in radio/microwave communications, and 1 in safety and first aid, for a total of 13 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in radio/microwave communications, 1 in safety and first aid, and 2 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 2 semester hours in personnel administration (10/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in radio/microwave communications, 1 in safety and first aid, 2 in personnel supervision, 2 in human relations, and 2 in introduction to management, for a total of 19 semester hours. In the upper-division baccalaureate category, 2 semester hours in personnel administration, 3 in industrial arts, 3 in technical electronics, and 3 for field experience in management, for a total of 11 semester hours (10/79).

MOS-26M-001

Airborne Surveillance Radar Repairman

26M20
26M40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 26M was discontinued for use in the Active Army and retained for use in the Reserve Forces only.)

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Summary: Supervises, inspects, and performs support and depot maintenance on airborne surveillance radar systems and associated ground equipment. *Skill Level 20:* Performs support and depot maintenance on side-looking airborne radar systems (including the airborne surveillance radar, radar data transmitting set, radar data receiving set, and data transfer system alignment); inspects tests, and repairs malfunctioning equipment by using voltmeters, ohmmeters, signal generators, and oscilloscopes; adjusts, calibrates, and aligns equipment to manufacturers' specifications; performs authorized modifications and advises maintenance personnel on changes in operation and maintenance requirements due to equipment modification; prepares appropriate maintenance and supply forms and reports; keeps tools and test equipment in proper operating condition and accurately calibrated. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities and technician training functions. NOTE: May have progressed to 26M40 from 26M20 or 41G20 (Surveillance Photographic Equipment Repairman).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, and additional credit in digital electronics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in human relations, 3 in maintenance supervision, 3 for field experience in management, and additional credit in digital electronics, algebra, and trigonometry on the basis of institutional evaluation, for a minimum total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-26M-002

Aerial Surveillance Radar Repairer

26M10
26M20
26M30

Exhibit Dates: 9/77–Present.

Career Management Field: 28 (Aviation Communications-Electronics Systems Maintenance).

Description

Effective 9/77, MOS 26M was discontinued for use in the Active Army and retained for use in the Reserve Forces only. The American Council on Education will not be able to evaluate MOS 26M until after the Skills Qualification Tests for 26M10, 26M20, and 26M30 have been developed, which is not expected until 1981.

Recommendation, All Skill Levels

Credit on the basis of institutional evaluation.

MOS-26N-001

Surveillance Infrared Repairman

26N20

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 26N was discontinued for use in the Active Army and retained for use in the Reserve Forces only.)

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Performs support and depot maintenance of infrared surveillance systems; locates and determines causes of malfunctions by circuit diagrams and specialized testing; repairs, modifies, and aligns by using test equipment and specialized hand tools; provides technical assistance; performs administrative duties, including requisitioning, stocking, and filing of repair parts and supplies.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radio, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS-26N-002

AERIAL SURVEILLANCE INFRARED REPAIRER

26N10

26N20

Exhibit Dates: 9/77–Present.

Career Management Field: 28 (Aviation Communications-Electronics Systems maintenance).

Description

Effective 9/77, MOS 26N was discontinued for use in the Active Army and retained for use in the Reserve Forces only. The American Council on Education will not be able to evaluate MOS 26N until after the Skills Qualification Tests for 26N10 and 26N20 have been developed, which is not expected until 1981.

Recommendation, Skill Levels 10 and 20

Credit on the basis of institutional evaluation.

MOS-26P-001

RADIO PROPAGATION SPECIALIST

26P20

26P40

26P50

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 26P was discontinued and its functions were incorporated into MOS 32H (Fixed Station Radio Repairer) and 32Z (Communications-Electronics Maintenance Chief.)

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Performs inspections and maintenance on specialized electromagnetic equipment. *Skill Level 20:* Installs, operates, maintains, and repairs radio propagation equipment; locates malfunctions of major components; adjusts equipment, using standardized and specialized meters and oscilloscopes; interprets circuit diagrams, schematic diagrams, and technical literature pertaining to operation and maintenance of ionosonde, field intensity, radio noise measuring, and associated equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; performs routine management functions of a radio propagation station; supervises ionosphere recording operations and associated radio propagation tests and analysis activities; supervises installation of equipment; may write specifications for equipment and technical reports; prepares work schedules and operating procedures; demonstrates correct maintenance and operating procedures; keeps work logs; prepares supply requisitions; prepares and consolidates technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; organizes and directs survey teams; plans and controls maintenance of facility equipment and physical plant; diagnoses and determines causes of unusual malfunctions; evaluates test equipment; determines tool requirements; provides technical assistance and on-the-job training for subordinate personnel.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and 2 in technical mathematics. In an electronics technician (communications) apprentice training program, 500 clock hours of experience and 60 contact hours of related instruction (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics, 3 in personnel supervision, 3 in human relations, and 2 in technical mathematics, for a total of 14 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in maintenance management, for a total of 12 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-26Q-001

TACTICAL SATELLITE/MICROWAVE SYSTEMS OPERATOR

26Q10

26Q20

26Q30

26Q40

Exhibit Dates: 3/78–Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises or performs installation, operation and maintenance of microwave, troposcatter radio, satellite, multiplexing equipment and communications security equipment. *Skill Level 10:* Installs, operates and maintains microwave, troposcatter radio satellite, multiplexing equipment and associated power equipment and communications security devices; assembles, erects, and orients antennas; tunes, adjusts and aligns equipment for maximum performance; adjusts multiplexing equipment for maximum efficiency; operates on voice frequency and teletype; performs satellite balancing procedures; employs test equipment and tools such as spectrum analyzers and voltmeters; corrects operational troubles; detects electronic countermeasures; interprets military maps and traffic diagrams; applies safety precautions around high voltages and performs emergency actions in event of injury. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in selection of site for systems equipment; makes alignment adjustments to maximum efficiency; monitors operations of system equipment; recognizes electronic countermeasures and employs corrective action; maintains station logs and provides technical guidance to subordinate personnel. *Skill Level 30:* Able to perform duties required for Skill Level 20; supervises installation and performance of station equipment and personnel; instructs in proper operating procedures; maintains logs and records; prepares administrative and technical reports; requisitions supplies; provides assistance in complex or unusual operational problems; supervises and evaluates 5 or more personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; coordinates maintenance support; assists in the planning, utilization, operation, and maintenance support for communications systems; supervises up to 20 persons.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in AC/DC electronics theory, 3 in microwave and radio frequency communications, 1 in high-frequency amplifier and multiplex operations, and 1 in industrial safety procedures, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in microwave/radio communications, and 1 in safety and first aid, for a total of 7 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in microwave/radio communications, 1 in safety and first aid, and 2 in personnel supervision, for a total of 9 semester hours. In the upper-division baccalaureate category, 2 semester hours in personnel administration (10/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in microwave/radio communications, 1 in safety and first aid, 2 in personnel supervision, and 2 in introduction to management, for a total of 11 semester hours. In the upper-division baccalaureate category, 2 semester hours in personnel administration, and 3 for field experience in management (10/79).

MOS-26R-001

STRATEGIC SATELLITE/MICROWAVE SYSTEMS OPERATOR

26R10

26R20

26R30

Exhibit dates: 3/78–Present. Pending evaluation.

MOS-26T-001

TELEVISION EQUIPMENT REPAIRMAN

26T20

26T30

26T40

26T50

Exhibit Dates: 10/73–2/77.

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Summary: Installs, operates, and repairs monochrome and color television receivers, monochrome and color camera chains and film chains, video tape equipment, television transmitting equipment, and television microwave relay systems. *Skill Level 20:* Installs and operates television receivers, cameras, and tape equipment; locates malfunctions of major components; adjusts equipment for proper performance; uses common test equipment such as VOM and oscilloscope; keeps transmitter logs; reads schematic diagrams and wiring diagrams. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assures video quality and is capable of diagnosing substandard video transmission; is familiar with equipment capabilities and limitations. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; knows equipment operating parameters; supervises repair and testing of equipment; assists in writing specifications for equipment purchases; increases proficiency beyond Skill Level 30 in diagnosing malfunctions from schematic diagrams; supervises 5 to 29 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; prepares maintenance schedules; evaluates test equipment and tool requirements; supervises equipment modifications; provides technical assistance for maintenance and repair; supervises 30 or more persons; provides on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In a television broadcast engineer or a television repairman apprentice training program, 400 clock hours of experience and 50 contact hours of related instruction (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in television equipment repair. In a television broadcast engineer or a television repairman apprentice training program, 800 clock hours of experience and 100 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in television equipment repair and 3 for a practicum in personnel management. In a television broadcast engineer or television repairman apprentice training program, 1,200 clock hours of experience and 150 contact hours of related instruction. NOTE: At this level in civilian television broadcast service, a first-class FCC operator's license is mandatory; the skills and knowledge required to pass the FCC license examination are broader in scope than those required for the performance of this MOS (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 9 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in television equipment repair and 3 for a practicum in personnel management. In the upper-division baccalaureate category, 3 semester hours in maintenance management. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 40 because additional skills are administrative and supervisory in nature (2/75).

MOS-26T-002

RADIO/TELEVISION SYSTEMS SPECIALIST

26T10
26T20
26T30

Exhibit Dates: 3/77–Present.

Career Management Field: 84 (Public Affairs and Audio-Visual).

Description

Summary: Installs, operates, and repairs monochrome and color television receivers, monochrome and color camera chains and film chains, video tape equipment, television transmitting equipment, and television microwave relay systems. *Skill Level 10:* Under supervision, installs and operates television receivers, cameras, and tape equipment; locates malfunctions of major components; adjusts equipment for proper performance; uses common test equipment such as VON and oscilloscope; uses common and specialized hand tools and measuring devices; reads schematic diagrams and wiring diagrams; keeps transmitter logs. *Skill Level 20:* Able to perform the duties required for Skill Level 10, and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises personnel performing the duties of MOS 26T20 or MOS 41E20, Audio-Visual Equipment Repairer; assures video quality on all display devices associated with originating or recording equipment; diagnoses substandard video transmission; supervises up to 7 persons; supervises personnel engaged in setting up and aligning cameras, camera control, special effects, and associated transmission equipment; checks the repair work of lower skill level personnel; establishes work schedules. NOTE: May have progressed to 26T30 from 26T20 or 41E20, Audio-Visual Equipment Repairman.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in television equipment repair, 3 in use and care of tools and test equipment, and credit in basic electronics and troubleshooting techniques on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, and credit in television equipment repair, technical aspects of television, troubleshooting techniques, and basic electronics on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in television equipment repair, 3 in use and care of tools and test equipment, and 3 in troubleshooting techniques, and credit in basic electronics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in television equipment repair, 3 in technical aspects of television, 3 in troubleshooting techniques, and credit in basic electronics on the basis of institutional evaluation, for a minimum total of 12 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in television equipment repair, 3 in use and care of tools and test equipment, and 3 in troubleshooting techniques, and credit in basic electronics on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in television equipment repair, 3 in technical aspects of television, 3 in troubleshooting techniques, 1 in personnel supervision, and credit in basic electronics and human relations on the basis of institutional evaluation, for a minimum total of 13 semester hours (5/78).

MOS-26U-001

UNATTENDED GROUND SENSOR SYSTEMS REPAIRMAN

26U20
26U40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 26U was discontinued and its functions were incorporated into MOS 17K, Ground Surveillance Radar Crewman, and MOS 17M, Unattended Ground Sensor Specialist).

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Supervises and performs maintenance on the unattended ground sensor systems. *Skill Level 20:* Diagnoses and repairs electronic sensors; operates test equipment in automatic, semiautomatic, and manual modes; determines faults in the data transmission, relay, receiver, recorder/display assemblies, sensor module construction, and associated equipment; removes, repairs, and replaces malfunctioning assemblies, subassemblies, modules, and/or component parts; checks out radio frequency channel and unique digital or analog message format of sensor; aligns, adjusts, and repairs equipment; modifies systems; interprets electronic circuit diagrams; applies safety precautions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance of the unattended ground sensor systems; organizes units; instructs operator personnel; keeps equipment records and prepares reports; diagnoses and determines causes of unusual malfunctions.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics and 3 in equipment repair. Fully qualified to enter an apprentice training program in the electrical and electronic trades (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower/division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in equipment repair, 3 in human relations, 3 for field experience in management, and additional credit in technical writing on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a minimum total of 15 semester hours. Fully qualified to enter an apprentice training program in the electrical and electronics trades (3/76).

MOS-26V-001

STRATEGIC MICROWAVE SYSTEMS REPAIRMAN

26V10
26V20
26V40
26V50

Exhibit Dates: 10/73-2/78.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Installs, maintains, and operates line-of-sight and tropospheric scatter microwave communications equipment; wires and connects equipment for installation; makes performance tests on operating equipment, using only one type of equipment for testing. *Skill Level 10:* Knows terminology and can read simple wiring diagrams; uses manuals to interpret meter readings to determine equipment condition; under supervision, operates basic microwave equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; uses basic electronics mathematics and becomes proficient in reading schematic diagrams of subassemblies; under supervision, repairs complicated microwave communications equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; becomes familiar with interconnect concepts; troubleshoots and repairs electronic circuits; applies knowledge of microwave antenna radiation to select operational sites; is a first-line supervisor of personnel who operate and repair microwave communications equipment; as an office manager, makes shift and work assignments, issues instructions, and writes technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as a mid-level manager, supervises the technical operation and repair of communications equipment, writes instructions and technical reports pertaining to system operations, and may supervise 30 or more persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower/division baccalaureate/associate degree category, 3 semester hours in electronics (2/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics. In the electronics technician or a communications fixed plant installer or repairman apprentice training program, 480 clock hours of experience and 60 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and 3 in personnel supervision or office management, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management or in administration. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and 6 in personnel supervision or office management, for a total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours in personnel management or in administration. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature. NOTE: At this level in a comparable civilian occupation, a second-class FCC radio operators license is mandatory; the skills and knowledge, particularly in mathematics and electronics theory, required to pass the FCC license examination are broader in scope than those required for the performance of this MOS (2/75).

MOS-26V-002

STRATEGIC MICROWAVE SYSTEMS REPAIRER

26V10
26V20
26V30
26V40

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications—Electronics Maintenance).

Description

Summary: Installs, repairs, operates, and performs maintenance on line-of-sight and tropospheric scatter microwave communications equipment; wires and connects equipment for installation; makes performance tests on operating equipment. *Skill Level 10:* Knows microwave communications systems, terminology and circuitry; uses test equipment to determine equipment condition; operates basic microwave equipment; does first-line repair and maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; repairs microwave communications systems to component level; uses schematic diagrams and test equipment to perform repair duties. *Skill Level 30:* Able to perform the duties required for Skill Level 20; troubleshoots and repairs microwave equipment circuits; uses knowledge of antenna radiation to select operational sites; is a first-line supervisor of personnel who operate and repair microwave communications equipment; as an office manager, makes shift and work assignments, issues instructions, and maintains maintenance records; may supervise from 3 to 5 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as a mid-level manager, supervises the technical operation and repair of a microwave communications station, writes instructions and technical reports pertaining to system operations, and may supervise 10 to 13 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in AC/DC circuits, 2 in communications principles, 2 in troubleshooting techniques, and 2 in active devices, for a total of 11 semester hours (5/79).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in communications principles, 4 in troubleshooting techniques, 3 in active devices, 4 in microwave circuits, for a total of 20 semester hours (5/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in communications principles, 5 in troubleshooting techniques, 3 in active devices, and 4 in microwave circuits, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in communications principles, 5 in troubleshooting techniques, 3 in active devices, 4 in microwave circuits, 2 in personnel supervision, 3 in human relations, and 3 in maintenance management, for a total of 29 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in management (5/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in communications principles, 5 in troubleshooting techniques, 3 in active devices, 4 in microwave circuits, 3 in personnel supervision, 3 in human relations, and 3 in maintenance management, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/79).

MOS-26W-001

RADAR MAINTENANCE SUPERVISOR—INSPECTOR

26W20
26W40
26W50

Exhibit Dates: 10/73-8/77. (Effective 9/77, MOS 26W was discontinued and its functions were incorporated into MOS 26C, Combat Area Surveillance Radar Repairer; MOS 35P, Avionic Equipment Maintenance Supervisor; or MOS 27F, Vulcan Repairer.)

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Summary: Supervises maintenance and performs technical inspection of non-integrated radars including ground surveillance, weapons support, ground control, airborne, and air defense radars and associated equipment. *Skill Level 20:* Able to perform the duties of any radar repair MOS in career management field 26; inspects and checks maintenance performed by Skill Level 20 personnel in radar repair MOS's for adequacy, suitability, and workability; inspects for wear, damage, and performance; measures performance against test standards; ascertains needed replacements or repairs of component parts. NOTE: May have progressed to 26W20 from 26B20, 26B30 (Weapons Support Radar Repairman), 26C20 (Combat Area Surveillance Radar Repairman), 26D20 (Ground Control Approach Radar Repairman), 26K20 (Electronic Warfare Equipment Repairman), 26M20 (Airborne Surveillance Radar Repairman), or 26N20 (Surveillance Infrared Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20 and for any radar repair MOS in career management field 26; supervises radar repair units; organizes and supervises repair team activities, plans work schedules, supervises maintenance and repairs; interprets complex specification, circuit, schematic, and cable diagrams; analyzes malfunctions and recommends corrective action. NOTE: May have progressed to 26W40 from either 26W20 or 26B30 (Weapons Support Radar Repairman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises maintenance unit at battalion or higher level; organizes maintenance facilities and plans maintenance schedule; prepares reports; recommends machine design changes and changes in work procedure; provides technical guidance. NOTE: May have progressed to 26W50 from 26W40, 24P40 (Defense Acquisition Radar Mechanic), 26K40 (Electronic Warfare Equipment Repairman), or 26M40 (Airborne Surveillance Radar Repairman).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits, 3 in tube and transistor circuits, 3 in radar, 3 in maintenance supervision, 3 in human relations, and additional credit in industrial arts education (electronics) and computer science on the basis of institutional evaluation, for a minimum total of 24 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits, and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in maintenance supervision, 3 in personnel supervision, 3 in human relations, and additional credit in industrial arts education (electronics) and computer science on the basis of institutional evaluation, for a minimum total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in industrial arts education (electronics), 3 in human relations, 3 in maintenance management, and 6 for field experience in management, for a total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-26Y-001

SATELLITE COMMUNICATIONS GROUND
STATION EQUIPMENT REPAIRMAN

26Y20
26Y40
26Y50

Exhibit Dates: 10/73–2/78.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Installs, maintains, and operates satellite tracking systems, antenna positioning systems, and communications systems. *Skill Level 20:* Reads wiring, circuit, cable, and schematic diagrams and knows technical terminology related to the specific equipment; uses technical manuals to interpret meter readings and determine the serviceability of equipment; inspects, tests, and adjusts components to specific tolerances, primarily by using system-specific test equipment, as well as voltmeters, ohmmeters, spectrum analyzers, deviation meters, oscilloscopes, signal generators, frequency counters, and power meters; computes voltage, amperage, and resistance factors; repairs, removes, or replaces defective components and parts; identifies electronic jamming and applies appropriate electronic counter-countermeasures. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a shift supervisor, an operations sergeant, or, at a small facility of fewer than 18 persons, a station chief; conducts on-the-job training; makes work assignments; keeps work logs and requisitions supplies; reviews, consolidates, and prepares technical and administrative reports; interprets complex specifications and diagrams for subordinate personnel and diagnoses unusual causes of equipment malfunction. *Skill Level 50:* Able to perform the duties required for Skill Level 40; manages a large satellite ground station.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics. In an electronic technician apprentice training program, 480 clock hours of experience and 60 contact hours of related instruction (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in electronics. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics, 3 in personnel supervision, and 3 in human relations, for a total of 12 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in introduction to management. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-26Y-002

SATELLITE COMMUNICATIONS GROUND
STATION EQUIPMENT REPAIRER

26Y10
26Y20
26Y30
26Y40

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Installs and maintains satellite tracking, antenna positioning, and communications transmitting and receiving systems. *Skill Level 10:* Performs preventive and corrective maintenance on satellite communications ground station equipment; uses voltmeters, ohmmeters, oscilloscopes, spectrum analyzers, deviation meters, signal generators, frequency counters, power meters, modulation deviation and noise measurement equipment; troubleshoots to component level. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; requisitions repair and replacement parts and tools. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to lower skill level personnel; prepares and implements standard operating procedures; coordinates maintenance and safety problems with appropriate authorities; coordinates and establishes liaison with support activities; diagnoses unusual cases of equipment malfunction. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises installation operation, and maintenance of satellite communications ground station equipment; prepares maintenance schedules, and work assignments; reviews, consolidates, and prepares technical and administrative reports; may supervise 17 or more persons.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 2 in communications electronics, 2 in troubleshooting techniques, 2 in solid-state circuits, 2 in instrumentation and controls, 4 in digital circuits, and 4 in microwave fundamentals, for a total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in AC/DC circuits, 2 in communications electronics, 2 in troubleshooting techniques, 2 in solid-state circuits, 2 in instrumentation and controls, 2 in digital circuits, and 2 in microwave fundamentals, for a total of 17 semester hours (5/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in communications electronics, 3 in troubleshooting techniques, 3 in solid-state circuits, 3 in instrumentation and controls, 5 in digital circuits, and 6 in microwave fundamentals, for a total of 29 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 4 in communications electronics, 4 in troubleshooting techniques, 3 in solid-state circuits, 3 in instrumentation and controls, 4 in digital circuits, and 4 in microwave fundamentals, for a total of 28 semester hours (5/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in communications electronics, 3 in troubleshooting techniques, 3 in solid-state circuits, 3 in instrumentation and controls, 5 in digital circuits, and 8 in microwave fundamentals, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 4 in communications electronics, 5 in troubleshooting techniques, 3 in solid-state circuits, 3 in instrumentation and controls, 4 in digital circuits, 4 in microwave fundamentals, 3 in maintenance management, and 3 in human relations, for a total of 35 semester hours. In the upper-division baccalaureate/associate degree category, 2 semester hours for field experience in management (5/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 4 in communications electronics, 5 in troubleshooting techniques, 3 in solid-state circuits, 3 in instrumentation and controls, 4 in digital circuits, 4 in microwave fundamentals, 3 in maintenance management, 3 in human relations, and 3 in personnel supervision, for a total of 38 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (5/79).

MOS-27B-001

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST

27B20

27B40

Exhibit Dates: 10/73-8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs maintenance on the Land Combat Support System (LCSS). *Skill Level 20:* Uses basic test equipment such as oscilloscope, VOM, and signal generator; solders on printed circuit boards and discrete wiring; reads and interprets schematic diagrams and logic diagrams; identifies common electronic components; uses proper troubleshooting procedures; loads digital computer tapes; interprets digital printer outputs; performs basic instrument calibrations; aligns optical lens systems, shafts, and gear systems; draws block diagrams of systems; performs quality control inspections. *Skill Level 40:* Able to perform the duties required for Skill Level 20; maintains equipment records; establishes shop priorities and procedures; supervises shop operations.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 2 in industrial electronics, and 1 in digital theory, and additional credit in basic electronics, industrial electronics, digital theory, digital computer systems, systems maintenance, industrial science, and intermediate algebra on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in introductory electronics, 1 in electronic instrumentation, and 2 in digital computer systems, for a total of 5 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

The recommendation for educational credit is the same as that for Skill Level 20 plus, in the lower-division baccalaureate/associate degree category, 3 semester hours in human relations. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-27B-002

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST/LANCE REPAIRER

27B10

27B20

27B30

27B40

Exhibit Dates: 9/77-Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 271 (Ballistic/Land Combat Systems Maintenance).

Description

Summary: Performs maintenance on Land Combat Support Systems (LCSS) and the Lance missile system; inspects and tests equipment; locates card-level faults with special test equipment; replaces faulty assemblies and subassemblies; selects program tapes, patchboards and cable assemblies; adjusts and aligns mechanical, electrical, and optical assemblies; calibrates and repairs support equipment; performs quality control measures; prepares maintenance and supply forms and reports. *Skill Level 10:* Works under close supervision in performing maintenance functions; uses technical manuals; follows schematics and organized maintenance procedures; uses multimeters, oscilloscopes, signal generators, and power supplies; tests digital multimeters, waveform connectors, signal generators, pulse generators, power supplies, printers, and detector adapters; performs operator maintenance on AC power generators and replaces faulty components. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical assistance to Skill Level 10 personnel; repairs multimeters, waveform connectors, pulse generators, power supplies, signal generators, and patchboards; performs modifications on support equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to lower skill level personnel in accomplishment of duties; schedules work; sets repair priorities; inspects, tests, and repairs missile system components; demonstrates proper work practices and maintenance techniques; implements quality control measures; performs system inspections; supervises maintenance and inspection teams; may supervise a minimum of 5 persons. *Skill Level 40:* Able to supervise personnel performing the duties of MOS 27B, MOS 27E (TOW/Dragon Repairer), and MOS 27H (Shillelagh Repairer); supervises and coordinates support maintenance activities of system associated electronic equipment; assists in developing quality control measures; serves as section chief performing missile system support maintenance; serves as senior instructor in a training facility. NOTE: May have progressed to 27B40 from 27B30, 27E30 (TOW/Dragon Repairer), or 27H30 (Shillelagh Repairer).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in an electronics technician program. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 2 in electronics instrumentation, and 2 in digital computer principles, for a total of 7 semester hours (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics, 2 in electronic instrumentation, 2 in digital computer principles and 1 in personnel supervision, for a minimum total of 8 semester hours; *if duty position was Lance Repair Supervisor or LCSS Repair Supervisor,* 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 3 in personnel supervision, 3 in human relations, 2 in electronic instrumentation, and 2 in digital computer principles, for a total of 13 semester hours (5/78).

MOS-27D-001

LANCE MISSILE SYSTEM REPAIRMAN

27D20

27D40

Exhibit Dates: 10/73-8/77. (Effective 9/77, MOS 27D was discontinued and its functions were incorporated into MOS 27B, Land Combat Support System Test Specialist/Lance Repairer.)

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs routine maintenance on Lance missile systems. *Skill Level 20:* Performs field-level maintenance on Lance missile system, missile trainer, nickel-cadmium batteries, and field test equipment; inspects, tests, and adjusts subassemblies to specific functional levels; determines area of malfunction in specific subassemblies (electrical, mechanical, electronic, and electro-mechanical); determines serviceability of subassemblies and removes and replaces subassemblies; performs field calibration and provides technical assistance to supported units. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises field maintenance on Lance missile systems; schedules workloads and establishes priorities; recommends procedures for receipt and storage of items; supervises inspection of items and on-the-job training; establishes and maintains maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation. In an electronic technician apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, credit in electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, and additional credit in electronics on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-27E-001

WIRE-GUIDED MISSILE SYSTEMS
REPAIRMAN

27E20
27E40

Exhibit Dates: 10/73-8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs maintenance on the TOW and Dragon missile systems. *Skill Level 20:* Performs maintenance on wire-guided missile systems, trainers, night sights, battery chargers, and system-peculiar test equipment; performs adjustments to isolate malfunctions; diagnoses malfunctions; removes and replaces modules and assemblies. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises inspection and maintenance crews; organizes and conducts on-the-job training; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, and additional credit in basic electronics and direct current on the basis of institutional evaluation. In a construction electrician apprentice training program, 2,000 clocks hours of experience and 120 contact hours of related instruction (does not have experience in installing electrical components in buildings being constructed) (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in human relations, and additional credit in basic electronics and direct current on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-27E-002

TOW/DRAGON REPAIRER

27E10
27E20
27E30

Exhibit Dates: 9/77-Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 271 (Ballistics/Land Combat Systems Maintenance).

Description

Summary: Performs maintenance on TOW and Dragon missile system trainers, night sites, battery chargers and system test equipment. *Skill Level 10:* Performs maintenance tasks under close supervision; follows technical manuals in servicing and maintaining systems; inspects, tests, and adjust components to specified tolerances using special test equipment; locates and replaces malfunctioning electronic, electrical, mechanical, pneumatic and electro-mechanical subassemblies, modules, and circuit elements; prepares maintenance and supply forms and reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower skill level personnel; provides technical assistance to support units; installs equipment modifications; troubleshoots weapon system, launch effects trainer, TOW training set, and breakout box; performs operational checks on tracker test set, tracker and launch effects trainer and monitoring set. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises lower skill level personnel; supervises inspection and maintenance teams; establishes work loads and priorities; conducts in-service staff training; demonstrates proper maintenance and troubleshooting techniques; recommends maintenance procedures; implements quality control measures; establishes and maintains maintenance records; performs inspections; may supervise up to 5 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment (5/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, and 3 in introduction to electricity and electronics (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in introduction to electricity and electronics, and 1 in personnel supervision, for a minimum total of 7 semester hours; *if the duty position was TOW/Dragon Repair Foreman,* 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

MOS-27F-001

CHAPARRAL/VULCAN AIR DEFENSE
SYSTEM REPAIRMAN

27F20
27F40

Exhibit Dates: 10/73-8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Performs support maintenance on specialized missile equipment; has a basic knowledge of electronics, including radar and electromechanical applications. *Skill Level 20:* Inspects, tests, adjusts components to specific tolerances, and identifies malfunctions using primarily system-specific test equipment; repairs, removes, or replaces defective components and parts; performs initial and final check-out and inspection of system items; performs quality control measures; performs calibration on test sets peculiar to Chaparral and Vulcan equipment; prepares maintenance and supply forms. Duties required for maintenance of the Chaparral missile system involve largely modular repair, requiring the ability to read block diagrams; duties required for maintenance of the Vulcan electronic assemblies and radar involve specific component repair, requiring substantially more electronic theory and the ability to read schematic diagrams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a technical inspector or foreman, supervising and appraising the performance of 9 to 16 persons; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training, demonstrating proper maintenance and troubleshooting techniques.

Recommendation, Skill Level 20

No recommendation because of the limited and military nature of the skills, competencies, and knowledge. Advanced standing in an electronic technician apprentice training program only on the basis of employer or trade association performance examination because of the limited and military nature of the skills, competencies, and knowledge (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in personnel administration, and additional credit for field experience in education on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/75).

MOS-27F-002

Vulcan Repairer

27F10
27F20
27F30

Exhibit Dates: 9/77–Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 272 (Light Air Defense Systems Maintenance).

Description

Summary: Performs maintenance on Vulcan electronic assemblies, range-only-radar, and associated equipment. *Skill Level 10:* Works under close supervision; inspects, tests, and adjusts components to specific tolerances; determines malfunctions in assemblies, subassemblies, modules, circuit elements with common and system-peculiar test equipment; removes and replaces defective components and parts; tests transmitters/receivers, antennas, range computers, power supplies, amplifiers, control, and electronic field test sets; performs maintenance calibrations of power supplies, modular testers, receiver test sets, and other components unique to Vulcan electronic assemblies. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to Skill Level 10 personnel; installs system modifications; provides technical assistance to support units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and performs maintenance tasks; establishes work loads and priorities; establishes and conducts staff training; implements quality control measures; supervises inspection and maintenance teams; maintains records; recommends inspection, testing, and maintenance techniques; may supervise up to 5 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment (5/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment and 3 in basic electronics (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in basic electronics, and 1 in personnel supervision, for a minimum total of 7 semester hours; *if the duty position was Vulcan Repair Supervisor,* 1 additional semester hour in personnel supervision, and credit in human relations on the basis of institutional evaluation (5/78).

MOS-27G-001

Redeye Missile System Repairman

27G20
27G40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs field maintenance on Redeye missile system, trainer, and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts assemblies and subassemblies to specific operational levels; determines malfunctions in electronic, electrical, and cryogenic assemblies, subassemblies, modules, and circuit elements; removes and replaces defective components and parts; installs equipment modifications; performs initial and final checkouts and inspections; performs "C" level calibration on test equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the maintenance on the Redeye missile system, trainer, contact support test set, and associated equipment; schedules workloads; establishes priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment; implements quality control measures; supervises maintenance and inspection teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, and additional credit in basic electronics on the basis of institutional evaluation. In an electronic technician (sound and manufacturing) apprentice training program or in a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics, and additional credit in basic electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in basic electronics, and additional credit in basic electronics on the basis of institutional examination, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS-27G-002

Chaparral/Redeye Repairer

27G10
27G20
27G30
27G40

Exhibit Dates: 9/77–Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 272 (Light Air Defense Systems Maintenance).

Description

Summary: Performs maintenance on the Chaparral and Redeye missiles systems and associated equipment and trainers. *Skill Level 10:* Inspects, tests, and adjusts components to specific tolerances; determines malfunctions; uses system-associated test equipment; removes and replaces defective components and parts; serves on maintenance and inspection teams; prepares maintenance and supply forms and reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; installs equipment modifications; provides technical assistance to supported units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work load and repair priorities; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; demonstrates proper maintenance and troubleshooting techniques; implements quality control measures; establishes and maintains maintenance records; may supervise up to 5 persons. *Skill Level 40:* Able to perform the duties of either 27G30 or 27F30 (Vulcan Repairer); supervises and coordinates support maintenance of the Chaparral and Redeye missile systems, Vulcan weapon system electronics, forward area alerting radar, system associated trainers and test equipment, power generation equipment, and calibration of system associated electronic equipment; assists in the development of and supervises the quality control program. NOTE: May have progressed to 27G40 from 27G30 or 27F30 (Vulcan Repairer).

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in the use and care of tools and test equipment and credit in basic electronics on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 30

In the vocational certificate category the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment and 1 semester hour in personnel supervision and credit in basic electronics on the basis of institutional evaluation, for a minimum total of 4 semester hours; *if the duty position was Chaparral/Redeye Missile Systems Repair Supervisor,* 1 additional semester hour in personnel supervision, and credit in human relations on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in personnel supervision, and 3 in human relations, and credit in basic electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours (5/78).

MOS-27H-001

Shillelagh Missile System Repairman

27H20
27H40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs maintenance on the Shillelagh missile system. *Skill Level 20:* Inspects, tests, and adjusts Shillelagh missile system by using a method of programmed test equipment and basic electronic theory; replaces faulty cables and assemblies; prepares maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment and components; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and trouble shooting techniques.

Recommendation, Skill Level 20

In the vocational certificate category, credit in electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, and additional credit in electronics and direct current on the basis of institutional evaluation (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, credit in electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in human relations, and additional credit in electronics and direct current on the basis of institutional evaluation (2/76).

MOS-27H-002

SHILLELAGH REPAIRER

27H10
27H20
27H30

Exhibit Dates: 9/77-Present.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), *subfield* 271 (Ballistic/Land Combat Systems Maintenance).

Description

Summary: Performs maintenance on the Shillelagh missile system, the trainer, and associated built-in and portable test equipment. *Skill Level 10:* Works under close supervision; performs on-site repairs by replacing cables and assemblies; inspects, tests, and adjusts components to specified tolerances; determines malfunctions in electronic, electro-mechanical, optical and infrared systems; maintains tools and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; provides technical assistance to support units; installs equipment modifications; troubleshoots instructor control unit, visual effects simulator, power supply, power control unit, fault locator, and transmitter signal analyzer; performs operational checks on equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; supervises inspection and maintenance teams; conducts on-the-job training programs; demonstrates proper maintenance and trouble-shooting techniques; may supervise up to 5 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment (5/78).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, and 3 in introduction to electricity and electronics (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in introduction to electricity and electronics, and 1 in personnel supervision, for a minimum total of 7 semester hours; *if the duty position was Shillelagh Repair Supervisor,* 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

MOS-27Z-001

LCSS MISSILE MAINTENANCE CHIEF

27Z50

Exhibit Dates: 10/73-Present.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Coordinates support maintenance of the Land Combat Support System (LCSS), including the Lance, TOW, Dragon, Chaparral, Shillelagh, and Redeye missile systems; Vulcan weapon system electronics; Forward Area Alerting Radar; and system-associated trainers and test equipment; helps determine and administers policy; assists superiors in planning and accomplishing training; advises superiors on all matters concerning enlisted personnel; may serve as a chief instructor in a training facility. NOTE: May have progressed to 27Z50 from 27B40 (Land Combat Support System Test Specialist), 27D40 (Lance Missile System Repairman), 27E40 (Wire-Guided Missile Systems Repairman), 27F40 (Chaparral/Vulcan Defense Systems Repairman), 27G40 (Redeye Missile System Repairman), 27H40 (Shillelagh Missile System Repairman), 24M40 (Vulcan System Mechanic), or 24N40 (Chaparral System Mechanic).

Recommendation

In the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, 6 for field experience in management, and additional credit in industrial arts education on the basis of institutional evaluation, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 18 semester hours (2/76).

MOS-28M-001

ANTI-BALLISTIC MISSILE MAINTENANCE SPECIALIST

28M10
28M20
28M40
28M50

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 28 M was discontinued.)

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 237 (Ballistic Missile Defense).

Description

Summary: Supervises or performs on-line maintenance on the SAFEGUARD missiles and their associated equipment. *Skill Level 10:* Operates and performs preventive maintenance on missile service and transporter vehicles, test equipment, associated ground support, and handling equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; tests and checks guidance control and warhead sections to verify presence and integrity of circuitry; checks and tests missile and launch equipment and isolates malfunctions; replaces defective missile stages and sections and launch equipment components; determines the cause and location of a malfunction of the environmental system in a cell or launch preparation equipment compartment in the event of a minor alarm; removes cover, de-energizes electrical power, and performs minor corrective action; prepares maintenance and supply records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises on-line maintenance of the missile and associated equipment; schedules and assigns work; corrects faulty work procedures by instruction and demonstration; enforces safety regulations; diagnoses and analyzes complex malfunctions; conducts on-the-job training programs; prepares technical reports; establishes maintenance controls and performance standards. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal maintenance supervisor in a multi-shift operation performing on-line missile maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, credit in basic electricity laboratory and systems maintenance on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 6 for field experience in management (6/76).

MOS-31B-001

FIELD COMMUNICATIONS-ELECTRONICS EQUIPMENT MECHANIC (FIELD RADIO MECHANIC)

31B20
31B30

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 31B was discontinued and its functions were incorporated into MOS 31V, Tactical Communications Systems Operator/Mechanic.)

Career Management Field: 31 (Field and Area Communications Maintenance), *sub-*

field 311 (Field Communications Maintenance).

Description

Summary: Installs, operates, and performs preventive maintenance on electronic communications systems that include communications security equipment, common and special test, calibration, and diagnostic equipment, as well as selected target surveillance equipment. *Skill Level 20:* Inspects equipment for serviceability; cleans equipment covers and cases; replaces fuses, lamps, and batteries; reads and applies circuit and schematic diagrams; performs troubleshooting procedures at the circuit level to localize and diagnose causes of equipment malfunction; maintains equipment and supply records, interprets technical reports and manuals; uses multimeter, oscilloscope, and signal injection and tracing equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs preventive maintenance and diagnostic troubleshooting procedures and repair on special purpose digital computer and associated equipment, including paper tape punches and readers.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in electronic circuits and devices (solid-state and vacuum tubes), and 3 in electronic communications systems, for a total of 12 semester hours (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in electronic circuits and devices (solid-state and vacuum tubes), 3 in electronic communications systems, and 3 additional semester hours in introduction to digital computer circuits, for a total of 15 semester hours (3/76).

MOS–31D–001

PERSHING COMMUNICATIONS SPECIALIST

31D20
31D40

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 31D was discontinued and its functions were incorporated into MOS 26Q, Tactical Satellite/Microwave Systems Operator.)

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Installs, operates, and performs routine maintenance on tropospheric scatter radio and associated multiplexing equipment. *Skill Level 20:* Positions antennas, interconnects equipment, and makes tuning adjustments on receivers and transmitters; uses compass; reads specialized metering scales on equipment; keeps equipment log books. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and organizes tropospheric scatter radio operations, maintenance, and security functions; corrects faulty work practices by instruction and demonstration of proper techniques; requests supplies and prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower/division baccalauaureate/associate degree category, 2 semester hours in electronic communications (practices and procedures) and 1 in maintenance (radio or equipment) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic communications (practices and procedures) and 2 in maintenance (electronic or equipment). In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications (practices and procedures), 3 in human relations, 2 in industrial maintenance supervision, and 1 in technical writing, for a total of 9 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in management (3/76).

MOS–31E–001

FIELD RADIO REPAIRMAN

31E20
31E40

Exhibit Dates: 10/73–2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on FM radios, single side band radios, and radio teletypewriter equipment. *Skill Level 20:* Performs testing and maintenance procedures; dismantles components, traces continuity, locates malfunctioning parts, and repairs faulty circuitry parts; uses multimeters, oscilloscopes, signal generators, and other equipment to locate and repair malfunctioning circuits; computes voltage, current, resistance, and power using Ohm's Law and Watt's Law functions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises field radio equipment maintenance programs and instructs in maintenance procedures and techniques; diagnoses and determines causes of unusual and complex cases of equipment malfunction or nonfunction; interprets complex circuit and schematic diagrams; requisitions supplies; prepares, reviews, and consolidates technical and administrative reports; normally supervises 8–15 persons. NOTE: May have progressed to 31E40 from 31E20, 31B20, or 31B30 (Field Communications Electronics Equipment Mechanic).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, and 3 in electronic components (solid-state and vacuum tubes), for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, and 2 in electronic devices (solid-state and vacuum tubes), for a total of 11 semester hours. Advanced standing in a radio-television repairman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, 3 in electronic components (solid-state and vacuum tubes), and 2 in systems maintenance and repair, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, 3 in electronic devices (solid-state and vacuum tubes), 2 in systems maintenance and repair, 3 in human relations, and 3 in introduction to management, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management. Advanced standing in a radio-television apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS–31E–002

FIELD RADIO REPAIRER

31E10
31E20
31E30

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on AM, FM, single side band, and FSK field radio receivers, transmitters, and associated equipment. *Skill Level 10:* Inspects, troubleshoots, repairs, and tests field radio receiver/transmitter equipment; replaces modules and major components; aligns and adjusts equipment to ensure proper operating efficiency; uses common and specialized tools and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; disassembles components and repairs circuit wiring; prepares reports and maintenance records; provides technical guidance to Skill Level 10 personnel. Skill Level 30: Able to perform the duties required for Skill Level 20; supervises installation and use of necessary equipment for maintenance of field radio receiver and transmitter equipment; observes, corrects, and instructs lower skill level personnel in proper maintenance techniques; requisitions supplies; prepares, reviews, and consolidates technical and administrative reports; diagnoses and determines causes of complex and unusual cases of malfunction; schedules workload; conducts on-the-job training.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electricity (DC) and 3 in communications electronics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics, and 3 in communications electronics, for a total of 9 semester hours (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, and 3 in electronic components (solid-state and vacuum tubes), for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, and 2 in electronic devices (solid-state and vacuum tubes), for a total of 11 semester hours (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, 3 in electronic components (solid-state and vacuum tubes), and 2 in systems maintenance and repair, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, 3 in electronic devices (solid-state and vacuum tubes), 2 in systems maintenance, and 3 in personnel supervision, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management (10/79).

MOS-31G-001

TACTICAL COMMUNICATIONS CHIEF

31G40

31G50

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 31G was discontinued and its functions were incorporated into MOS 31V, Tactical Communications Systems Operator/Mechanic.)

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 311 (Field Communications Maintenance).

Description

Summary: Supervises the installation, operation, and maintenance of communications systems in infantry, armor, artillery, or other units employing similar methods of communication. *Skill Level 40:* Supervises the installation, operation, and routine maintenance of wire communications systems, FM radio nets, air-to-ground radio sets, and radio teletype sets; conducts training programs for unit personnel in communications procedures, operations, and maintenance practices; assists in selecting locations for communications facilities; assigns duties and coordinates the activities of various communications personnel. NOTE: May have progressed to 31G40 from 31B20, 31B30 (Field Communications Electronics Equipment Mechanic), 31D40 (Pershing Communications Specialist), 31E20 (Field Radio Repairman), 36K40 (Tactical Wire Operations Specialist), 05B40 (Radio Operator), 05C40, 05C50 (Radio Teletype Operator), 05E40 (Voice Radio Operator), or 05F40 (Radio Teletypewriter Operator, Non-Morse). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and coordinates communications activities; administers maintenance records and prepares reports; supervises supply operations; determines unusual causes of defective equipment. NOTE: May have progressed to 31G50 from 31G40, 31E40 (Field Radio Repairman), 05B40 (Radio Operator), 05C40, 05C50 (Radio Teletype Operator), 05E40 (Voice Radio Operator), or 05F40 (Radio Teletypewriter Operator, Non-Morse).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in introduction to electricity (DC), 3 in introduction to electronic communications, and 3 in map reading, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity (DC), 3 in introduction to electronic communications systems, 3 in map reading, 3 in human relations, 3 in introduction to management, and 3 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in a technical elective, and 3 in industrial arts, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 for an internship in education, 3 in a technical elective, and 3 in industrial arts, for a total of 15 semester hours (3/76).

MOS-31J-001

TELETYPEWRITER REPAIRMAN

31J20

31J40

31J50

Exhibit Dates: 10/73-2/74.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Performs installation, maintenance, and repair of electromechanical and electronic teletypewriter and facsimile equipment. *Skill Level 20:* Installs, maintains, and repairs electrical and mechanical office machines; uses basic hand tools; reads elementary electrical and electronic diagrams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; able to diagnose equipment malfunctions and repair requirements; conducts on-the-job training; organizes and supervises maintenance and inspection teams; requisitions and stocks supplies and repair parts; reviews and prepares technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as foreman, establishing workloads and maintenance priorities and conducting on-the-job training; implements quality control measures.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in industrial laboratory tool use and care and 1 in basic mathematics (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in industrial laboratory tool use and care and 1 in basic mathematics. In the lower-division baccalaureate/associate degree category, 1 semester hour in industrial laboratory tool use and care, 1 in basic mathematics, and additional credit for field experience in personnel supervision, education, and industrial arts on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 50

In the vocational certificate category, 1 semester hour in industrial laboratory tool use and care and 1 in basic mathematics. In the lower-division baccalaureate/associate degree category, 1 semester hour in industrial laboratory tool use and care, 1 in basic mathematics, and additional credit for field experience in personnel supervision, office management, education, and industrial arts on the basis of institutional evaluation (3/75).

MOS-31J-002

TELETYPEWRITER REPAIRMAN

31J20

31J40

Exhibit Dates: 3/74-2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Supervises and performs maintenance on electromechanical and electronic teletypewriter and facsimile equipment. *Skill Level 20:* Installs, tests, adjusts, overhauls, and repairs electromechanical and electronic teletypewriters and facsimile equipment; performs detailed testing to diagnose equipment malfunctions, using specialized tools and testing equipment; replaces faulty components, subassemblies, and parts; adjusts electrical, electronic, and mechanical components in accordance with applicable technical publications; test-operates repaired equipment to assure conformance with technical specifications; maintains tools and test equipment; reads schematic and wiring diagrams pertaining to teletypewriters and facsimile equipment; uses conventional and specialized soldering techniques; prepares and keeps maintenance forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the maintenance of electromechanical and electronic teletypewriters and facsimile equipment; plans and schedules maintenance; maintains equipment forms and records; requisitions spare parts, supplies, and technical manuals; reviews, consolidates, and prepares technical and administrative reports pertaining to equipment and equipment maintenance activities; conducts on-the-job training; demonstrates correct maintenance techniques; diagnoses difficult and unusual equipment malfunctions; interprets complex specifications and circuit diagrams.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity, 2 in office machine repair, 1 in electromechanical systems, 1 in use of technical publications, and 1 in care and use of tools, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity. In an electronic technician apprentice training program, advanced standing on the basis of employer or trade association performance examination (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity, 3 in office machine repair, 1 in electromechanical systems, 1 in use of technical publications, 1 in care and use of tools, and 1 in blueprint reading, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in personnel supervision, 3 in human relations, 3 in record keeping, and 2 in technical report writing, for a total of 14 semester hours. In an electronic technician apprentice training program, advanced standing on the basis of employer or trade association performance examination (5/77).

MOS-31J-003

TELETYPEWRITER REPAIRER

31J10

31J20

31J30

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Performs maintenance on electromechanical and electronic teletypewriter and facsimile equipment. *Skill Level 10:* Installs, maintains, and repairs electrical and mechanical office machines at the module level; uses basic hand tools; reads elementary electrical and electronic diagrams; performs detailed testing to discover and diagnose causes of equipment malfunction. *Skill Level 20:* Able to perform the duties required for Skill Level 10; aligns electrical, electronic, and mechanical components as prescribed in applicable technical publications; reassembles and test-operates repaired equipment to ensure conformance with technical specifications; uses proper techniques to maintain, sectionalize, localize, and isolate electrical, electronic, and mechanical causes of equipment malfunction; prepares and keeps maintenance forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises four or more lower skill level personnel; able to diagnose equipment malfunctions and repair requirements; conducts on-the-job training; organizes and supervises maintenance and inspection teams; requisitions and stocks supplies and repair parts; maintains equipment forms and records; plans and schedules equipment maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in electronics laboratory and 1 in industrial laboratory tool use and care (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in electronics laboratory and 1 in industrial laboratory tool use and care (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in electronics laboratory and 1 in industrial laboratory tool use and care. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision (10/79).

MOS-31L-001

MULTICHANNEL COMMUNICATIONS
EQUIPMENT REPAIRMAN (FIELD
RADIO RELAY EQUIPMENT
REPAIRMAN)

31L20

31L40

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 31L was discontinued and its functions were incorporated into MOS 26L, Tactical Microwave Systems Repairer.)

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on multichannel communication equipment including radio sets, carrier terminals, multiplexers, combiners, repeaters, and frequency division plus code modulated systems. *Skill Level 20:* Performs periodic and emergency repairs on multichannel communication equipment using electronic test equipment; tests components, integrated circuits, modules, and printed circuits to localize malfunctions; repairs and replaces faulty items; adjusts unit for proper functioning; interprets schematics and technical literature. NOTE: May have progressed to 31L20 from 31M20 (Multichannel Communications Equipment Operator). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 4 or more multichannel communications equipment repairmen; instructs subordinates in proper repair and maintenance techniques; diagnoses and determines causes of unusual cases of equipment malfunction and nonfunction.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in solid state devices, 3 in basic digital computer circuits, 3 in communications systems, and 3 in electronic test equipment and instrumentation, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in solid state devices, 3 in basic digital computer circuits, and 3 in communications circuits, for a total of 15 semester hours. In an electronic technician apprentice training program, 1,500 clock hours of experience and 100 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in solid state devices, 3 in basic digital computer circuits, 3 in communications systems, 3 in communications circuits, and 3 in electronic test equipment and instrumentation, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that in the vocational certificate category plus 3 additional semester hours in human relations and 3 in introduction to management. In an electronic technician apprentice training program, 2,500 clock hours of experience and 180 contact hours of related instruction on the basis of employer or trade association performance examination (3/76).

MOS-31M-001

RADIO RELAY AND CARRIER ATTENDANT

31M20

31M40

Exhibit Dates: 10/73-2/74.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Installs and performs continuous maintenance on field radio relay equipment. *Skill Level 20:* Installs, operates, and maintains fixed radio relay equipment, including transmitters, receivers, and other electronic devices. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a foreman and inspector; conducts on-the-job training.

Recommendation, Skill Level 20

No credit recommendation because of the limited technical nature of the skills, competencies, and knowledge. Advanced standing in an apprentice training program in electronics or communications technology only on the basis of employer or trade association performance examination because of the limited technical nature of the skills, competencies, and knowledge (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, credit for field experience in personnel supervision and education on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/75).

MOS-31M-002

MULTICHANNEL COMMUNICATIONS
EQUIPMENT OPERATOR

31M20

31M40

Exhibit Dates: 3/74-2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Installs, operates, and maintains multichannel communications equipment, including transmitters, receivers, carrier terminals, repeaters, and associated multiplexing and communications devices. *Skill Level 20:* Performs minor electrical connections and mechanical adjustments on specific communications equipment and electrical generators; starts and adjusts power units to assure delivery of power at prescribed readings; checks equipment to determine readiness for operation; adjusts equipment to maintain efficiency circuits and operation of equipment at prescribed frequencies; maintains technical and administrative records pertaining to station operation; operates and performs preventive maintenance on light wheeled vehicles. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation, maintenance, and inspection of radio relay communications equipment; makes personnel assignments; conducts on-the-job training; demonstrates and instructs in proper operating techniques; requisitions supplies; prepares, reviews, and consolidates technical and administrative reports; maintains supply and maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in introduction to radio-telecommunications and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 1 semester hour in communications systems and additional credit in mechanical maintenance on the basis of institutional evaluation. Advanced standing in an apprentice training program in electronics or communications technology on the basis of employer or trade association performance examination (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in introduction to radio-telecommunications and 1 in communications techniques, and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 2 in personnel supervision, 2 in communications systems, 2 in maintenance management, and 1 in communications techniques, and additional credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 10 semester hours. Advanced standing in an apprentice training program in electronics or communications technology on the basis of employer or trade association performance examination (5/77).

MOS-31M-003

MULTICHANNEL COMMUNICATIONS
EQUIPMENT OPERATOR

31M10
31M20
31M30

Exhibit Dates: 3/78–Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Installs, operates, and supervises multichannel communications equipment. *Skill Level 10:* Installs and operates multichannel communications equipment, including radio, communications security devices, and multiplexer equipment; performs elementary operating checks and replaces modules as needed. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates and supervises the operation of multichannel communications equipment; applies fundamentals of radio procedures, communications security procedures, and precautions; oversees periodic and emergency maintenance; may supervise up to six persons. *Skill Level 30:* Supervises the installation and operation of multichannel communications systems; prepares and disseminates work schedules, operational procedures, and instruction; prepares traffic diagrams and administrative orders relative to system design; may supervise from five to nineteen lower skill level personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in laboratory practices (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in laboratory practices (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in laboratory practices. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision (10/79).

MOS-31N-001

TACTICAL CIRCUIT CONTROLLER

31N20
31N40

Exhibit Dates: 10/73–2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Supervises and operates communications patching panels to establish interconnections between communications facilities. *Skill Level 20:* Terminates and patches circuits in accordance with patching orders; designates cable pairs to be used between loop and terminal; assists in testing local wire, radio, data, and teletypewriter circuits; operates test equipment, including multimeter, to identify circuit and equipment faults; operates telephone switchboard and teletypewriter components of patching panels; interprets system maps, overlays, and circuit diagrams; knows first aid procedures for electrical shock. NOTE: May have progressed to 31N20 from 31M20 (Multichannel Communications Equipment Operator). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises circuit activities in a switching center or serves in a headquarters that supervises circuit control functions; supervises the installation and operation of systems control facilities; serves as a central officer supervisor analyzing telephone traffic and preparing routing, rerouting, and alternate routing orders and pertinent diagrams, charts, and records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity (DC) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in introduction to electricity. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity, 3 in introduction to management, and 3 in human relations, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS-31N-002

TACTICAL CIRCUIT CONTROLLER

31N10
31N20
31N30

Exhibit Dates: 3/78–Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises or operates communications patching panels to establish interconnections between communications facilities. *Skill Level 10:* Terminates and patches circuits in accordance with patching orders; designates cable pairs to be used between loop and terminal; assists in testing local wire, radio, data, and teletypewriter circuits; operates test equipment, including oscilloscope, signal generators, and multimeters, to identify circuit and equipment faults; operates telephone switchboard and teletypewriter components of patching panels; interprets system maps, overlays, and circuit diagrams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; may supervise up to three Skill Level 10 personnel; troubleshoots communications equipment, including VHF, microwave, troposcatter, satellite, and other narrow or wide band systems; prepares circuit connection record and interprets routing charts and communications diagrams; maintains circuit control records; identifies sources of communications interference and circuit troubles. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises circuit activities in a switching center; supervises the installation and operation of systems control facilities; diagnoses and determines causes of malfunctions of circuits and equipment; interprets and prepares operating instructions, circuit routing charts, communications diagrams, route bulletins, circuit registers, and other pertinent diagrams, charts, and records; evaluates performance of lower skill level personnel; may supervise four or more persons.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in laboratory practices (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in laboratory practices and 3 in troubleshooting techniques (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in laboratory practices and 3 in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision (10/79).

MOS-31S-001

FIELD GENERAL COMSEC REPAIRMAN

31S20
31S30

Exhibit Dates: 10/73–2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 314 (COMSEC Maintenance).

Description

Summary: Performs maintenance on communications security (COMSEC) equipment, including inspection, testing, diagnosis and isolation of defective components or modules, modification, repair, and calibration. *Skill Level 20:* Inspects, tests, and performs maintenance on communications security and compatible ancillary equipment and assemblies; uses associated special and common tools for tests, calibration, and diagnostic functions; locates and changes defective circuit modules; maintains equipment maintenance records and submits appropriate maintenance reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; troubleshoots equipment to locate defective component; installs and tests modifications to equipment; uses oscilloscope, multimeter, and specialized test equipment; uses Ohm's Law; reads schematic diagrams and logic diagrams; demonstrates correct and acceptable soldering techniques for miniaturized electronic equipment to include the application of printed circuit repair techniques.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC) and 1 in equipment maintenance or maintenance procedures. The skills, competencies, and knowledge are too limited and specialized to apply to an apprentice training program (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 2 in electronic devices (solid-state and vacuum tubes), and 2 in basic digital computer circuits, for a total of 10 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction on the basis of employer or trade association performance examination (3/76).

MOS-31S-002

FIELD GENERAL COMSEC REPAIRER

31S10
31S20
31S30
31S40

Exhibit Dates: 3/78-Present. Pending evaluation.

MOS-31T-001

FIELD SYSTEMS COMSEC REPAIRMAN

31T20
31T30

Exhibit Dates: 10/73-2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 314 (COMSEC Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on communications security (COMSEC) equipment, including calibration, modification, and diagnosis of defects. *Skill Level 20:* Maintains electronic communications equipment in serviceable condition, including testing and diagnosing to isolate malfunctions and replace modules; uses multimeter and oscilloscope; maintains equipment maintenance records and submits appropriate maintenance reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects, tests, and repairs communications security equipment; utilizes complex schematic, logic, and wiring diagrams and technical publications; repairs miniaturized electronic equipment; uses Ohm's Law, oscilloscope, multimeter, and specialized test equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (AC), 3 in basic electricity (DC), and 3 in control circuits (alarm, timing, synchronizing, and power), for a total of 9 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (AC), 3 in basic electricity (DC), 3 in communications circuits, 3 in basic solid state devices, 3 in basic solid state circuits, and 3 in electronic test equipment and instrumentation, for a total of 18 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

MOS-31T-002

FIELD SYSTEMS COMSEC REPAIRER

31T10
31T20

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications—Electronics Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on communications security (COMSEC) equipment, including calibration, modification, and diagnosis of defects. *Skill Level 10:* Maintains electronic communications equipment in serviceable condition, including testing and diagnosing to isolate malfunctions and replace modules; uses multimeter and oscilloscope; maintains equipment maintenance records and submits appropriate maintenance reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects, tests, and performs module-level repairs on communications security equipment; utilizes complex schematic, logic, and wiring diagrams and technical publications; repairs miniaturized electronic equipment; uses oscilloscope, multimeter, and specialized test equipment.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC) (10/79).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in communications circuits, and 3 in electronic test equipment and instrumentation, for a total of 9 semester hours (10/79).

MOS-31U-001

TACTICAL COMSEC MAINTENANCE CHIEF

31U40
31U50

Exhibit Dates: 10/73-2/78. (Effective 3/78, MOS 31U was discontinued and its functions were incorporated into MOS 31S, Field General COMSEC Repairer, and 32Z50, Communications—Electronics Maintenance Chief.)

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 314 (COMSEC Maintenance).

Description

Summary: Supervises and coordinates installation, maintenance, repair, modifications, overhaul, and inspection of communications security (COMSEC) systems. NOTE: Able to perform the duties of 31S30 (Field General COMSEC Repairman) or 31T30 (Field Systems COMSEC Repairman). *Skill Level 40:* Supervises 6-12 subordinate technicians in the installation, maintenance, and repair of electronic communications equipment; supervises the safeguarding of classified information and material, signal security practices, and safety precautions; supervises the management of equipment maintenance records and supply inventory; provides subordinates with technical guidance, including the use of the oscilloscope and multimeter; diagnoses and evaluates complex causes for defective equipment; coordinates workflow; prepares technical reports and correspondence; develops test procedures for subordinates to use in determining the extent of repairs required and adequacy of repairs completed. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a maintenance chief; instructs Skill Level 40 supervisors in the application of maintenance procedures; evaluates the efficiency and effectiveness of maintenance operations and training procedures; supervises the modification of equipment and provides on-the-job training in the maintenance of modified equipment.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics (AC), 3 in basic electricity (DC), 3 in communications circuits, 3 in basic solid-state devices, 3 in basic solid state circuits, and 3 in electronic test equipment and instrumentation, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (AC), 3 in basic electricity (DC), 3 in communications circuits, 3 in basic solid-state devices, 3 in basic solid-state circuits, 3 in electronic test equipment and instrumentation, 2 in personnel supervision, 3 in introduction to management, 3 in human relations, and 3 in maintenance shop operation, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 for a technical elective, and 3 in industrial arts, for a total of 9 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 for an internship in education, 3 for a technical elective, and 3 in industrial arts, for a total of 15 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS-31V-001

TACTICAL COMMUNICATIONS SYSTEMS OPERATOR/MECHANIC

31V10
31V20
31V30
31V40
31V50

Exhibit Dates: 3/78-Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Installs, operates, supervises, and performs preventive maintenance on tactical communications and selected electronic equipment in tactical units. *Skill Level 10:* Installs and operates tactical radio equipment; performs limited maintenance, such as module replacement, antenna repair, HF and VHF ground and air-to-ground tactical equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may supervise up to four operator/mechanics; plans and implements the installation of tactical communication systems; may serve as chief of a communication section; supervises communication center cryptographic operations in a tactical unit. *Skill Level 40:* Able to perform the duties required for Skill Level 30; coordinates activities with signal support and maintenance units; keeps unit commander and staff advised on communication matters; conducts training program for unit personnel; determines communication requirements and assigns duties; prepares administrative and technical reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and plans tactical radio and wire communications; coordinates operating activities of subordinate communication units in establishment of effective communication systems; selects communication sites and advises commander on communication matters; may supervise 38 or more personnel.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 6 semester hours in radio broadcasting. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications and 3 in elementary broadcasting (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in radio broadcasting. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications, 3 in elementary broadcasting, 3 in human relations, and 3 in personnel supervision, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/79).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in radio broadcasting. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications, 3 in elementary broadcasting, 3 in human relations, 3 in personnel supervision, 3 in technical report writing, and 3 in maintenance management, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in management problems, and 3 in personnel management, for a total of 12 semester hours (10/79).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in radio broadcasting. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications, 3 in elementary broadcasting, 3 in human relations, 6 in personnel supervision, 3 in technical report writing, 3 in maintenance management, and 3 in introduction to management, for a total of 24 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in management problems, and 6 in personnel management, for a total of 15 semester hours (10/79).

MOS-31W-001

TACTICAL ELECTRONIC MAINTENANCE CHIEF

31W40

31W50

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 31W was discontinued and its functions were incorporated into MOS 31E, Field Radio Repairer; MOS 31J, Teletypewriter Repairer; MOS 31V, Tactical Communications Systems Operator/Mechanic; and MOS 32Z, Communications-Electronics Maintenance Chief.)

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Supervises maintenance (rebuilding and repair to the component level) of electronic communications equipment. *Skill Level 40:* Organizes, supervises, and inspects activities of the maintenance shop; prepares lesson plans and instructs subordinate repair specialists in on-the-job training; reviews, consolidates, and prepares technical reports pertaining to electronic communications equipment maintenance activities; establishes work priorities; supervises equipment inspection and storage; diagnoses and determines causes of unusual equipment malfunction; interprets complex specifications and circuit, schematic, and wiring diagrams; explains complex concepts and demonstrates correct repair procedures and utilization of special test equipment and tools. NOTE: May have progressed to 31W40 from 31L40 (Multichannel Communications Equipment Repairman), 31B20, 31B30 (Field Communications-Electronics Equipment Mechanic), or 36L30 (Electronic Switching Systems Repairman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; as the principal noncommissioned officer, supervises 30 or more persons (and, as a maintenance chief at Grade E-9, supervises more than 50 persons); supervises and assists in making complex modifications to electronic communications equipment; assists superiors in the continuous appraisal of electronic communications equipment maintenance, operations, and training situations; provides technical guidance to subordinate maintenance personnel; as first sergeant of a company (approximately 200 enlisted personnel), serves as an administrator, personnel director, training director, and inspector. NOTE: May have progressed to 31W50 from 31W40, 31E40 (Field Radio Repairman), 31J40 (Teletypewriter repairman), 26L40 (Tactical Microwave Systems Repairman), or 31U50 (Tactical COMSEC Maintenance Chief).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic electronics (AC/DC) theory and laboratory, 1 in elementary algebra, 3 in amplifier circuits and devices, 6 in radio frequency circuit functions and analysis, 6 in electronic communications systems, and 2 in instrument applications, for a total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuit theory and laboratory, 2 in AC circuit theory and laboratory, 2 in electronic devices, 3 in electronic communication systems, 3 in systems maintenance and repair, 3 in basic electronics with laboratory, 3 in personnel supervision, and 3 in maintenance shop operation, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in introduction to management, 3 for a technical elective, and 3 in industrial arts, for a total of 12 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 for an internship in education, 3 in introduction to management, 3 in maintenance management, 3 for a technical elective, and 3 in industrial arts, for a minimum total of 21 semester hours; *if the duty assignment was first sergeant of a company at Grade E-8 or maintenance chief at Grade E-9,* 3 additional semester hours in personnel management, for a total of 24 semester hours. In the graduate category, credit in personnel management on the basis of institutional evaluation. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS-31Z-001

AREA COMMUNICATIONS CHIEF

31Z40

31Z50

Exhibit Dates: 10/73–2/78.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Supervises, coordinates, and directs the installation, operation, and maintenance of integrated electronic communications systems. *Skill Level 40:* Supervises and coordinates the installation, operation, and maintenance of integrated electronic communications center facilities, including wire, telephone central, carrier, radio relay, message center, and cryptographic activities; determines location of facilities, capabilities of equipment within the system, and appropriate use of circuits, lines, and equipment; conducts training in all phases of operating the communications system; collects, analyzes, and distributes material pertaining to signal intelligence; assists officer in the appraisal of general signal intelligence and operations. NOTE: May have progressed to 31Z40 from 31E20 (Field Radio Repairman), 31D40 (Pershing Communications Specialist), 31M40 (Multichannel Communications Equipment Operator), 31N40 (Tactical Circuit Controller), or 72E40 (Telecommunications Center Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and directs the installation, operation, and maintenance of major integrated electronic communications systems; prepares orders, line route maps, circuit and traffic diagrams, and related technical reports and materials; assists in planning, utilization of resources, operation of communications system, and maintenance support for the entire system; assigns duties and coordinates the activities of administrative, operating, and maintenance personnel in the employment of wire, radio relay, radio teletype, telephone, and message handling facilities; determines the effectiveness of system operation, adequacy of communication plant, and the need for additional equipment to meet unusual or added traffic demands; recommends changes in location, types or quantities of equipment, alternate routes, and establishment of switching centers; may serve as the first sergeant of a company (at grade E-8), supervising approximately 200 persons. NOTE: May have progressed to 31Z50 from 31Z40, 31M40 (Multichannel Communications Equipment Operator), 31N40 (Tactical Circuit Controller), 31G50 (Tactical Communications Chief), 31J40 (Teletypewriter Repairman), or 31U50 (Tactical COMSEC Maintenance Chief).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance shop operation, 3 in technical writing, 3 in map reading, and 3 in industrial safety, for a total of 15 semester hours. NOTE: Credit recommendations for technical expertise in the area of electronic communications may be obtained through the exhibits for previously held MOS's. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 for field experience in management, 3 in a technical elective, 3 in industrial arts, and 3 for an internship in education, for a total of 15 semester hours. There is no recommendation for advanced standing in an apprentice training program because the skills are administrative and supervisory in nature (3/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, 3 in a technical elective, 3 in industrial arts, 3 for an internship in education, 3 in human relations, and 3 in industrial management, for a minimum total of 24 semester hours; *if the duty assignment was first sergeant of a company or chief signal NCO,* 3 additional semester hours in personnel management, for a total of 27 semester hours; *if the duty assignment was sergeant major,* 3 additional semester hours for field experience in management as well as 3 in personnel management, for a total of 30 semester hours. There is no recommendation for advanced standing in an apprentice training program because the skills are administrative and supervisory in nature (3/76).

MOS-31Z-002

COMMUNICATIONS-ELECTRONICS
OPERATIONS CHIEF

31Z40
31Z50

Exhibit Dates: 3/78–Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises, coordinates, and directs the installation, operation, and maintenance of integrated electronic communications systems. *Skill Level 40:* NOTE: May have progressed to 31Z40 from 05C30 (Radio Teletype Operator), 36E30 (Cable Splicer), 26R30 (Strategic Satellite/Microwave Systems Operator), 31M30 (Multi-Channel Communications Equipment Operator), or 31N30 (Tactical Circuit Controller); able to supervise, assist, and inspect the duties performed by personnel working in the above MOS's; supervises and coordinates the installation, operation, and maintenance of integrated electronic communications center facilities, including wire, telephone central, carrier, radio relay, message center, and cryptographic activities; determines location of facilities, capabilities of equipment within the system, and appropriate use of circuits, lines, and equipment; conducts training in all phases of operating the communications system; collects, analyzes, and distributes material pertaining to signal intelligence; assists officer in the appraisal of general signal intelligence and operations. *Skill Level 50:* Able to perform the duties required for Skill Level 40. NOTE: May have progressed to 31Z50 from 31Z40 or 31V50 (Tactical Communications Systems Operator/Mechanic), 72G50 (Data Communication Switching Center Specialist), 36C50 (Wire Systems Installer/Operator), 26Q40 (Tactical Satellite/Microwave Systems Operator), 32D40 (Station Technical Controller), 36D40 (Antenna Installer Specialist), 72E40 (Telecommunications Center Operator), or 72H40 (Central Office Operations Operator); able to supervise, assist, and inspect duties performed by personnel working in the above MOS's; supervises and directs the installation, operation, and maintenance of major integrated electronic communications systems; prepares orders, line route maps, circuit and traffic diagrams, and related technical reports and materials; assists in planning, utilization of resources, operation of communications system, and maintenance support for the entire system; assigns duties and coordinates the activities of administrative, operating, and maintenance personnel in the employment of wire, radio relay, radio teletype, telephone, and message-handling facilities; determines the effectiveness of system operation, adequacy of communication plant, and the need for additional equipment to meet unusual or added traffic demands; recommends changes in location, types, or quantities of equipment, alternate routes, and establishment of switching centers; may serve as the first sergeant of a company (at grade E-8), supervising approximately 200 persons.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance management, 3 in technical report writing, 3 in office management, 3 in human relations, and 3 in a technical elective, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in management problems, and 3 in personnel management, for a minimum total of 12 semester hours; *if served as instructor,* 3 semester hours for a practicum in education, for a total of 15 semester hours (10/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance management, 3 in technical report writing, 3 in office management, 3 in human relations and 3 for a technical elective, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in management problems, 3 in introduction to management, and 3 in personnel management, for a minimum total of 15 semester hours; *if served as an instructor,* 3 semester hours for practicum in education; *if duty position was Communications-Electronics Operations First Sergeant (designated on records as 31Z5M), or Chief Communications-Electronics NCO,* 3 additional semester hours in personnel management; *if rank was sergeant major,* 3 additional semester hours in personnel management and 3 for field experience in management (10/79).

MOS-32D-001

FIXED STATION TECHNICAL CONTROLLER

32D20
32D40

Exhibit Dates: 10/73–2/78.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises or insures fidelity and continuity of Army communications circuits. *Skill Level 20:* Prevents and corrects conditions which disrupt fidelity, continuity, and operation of communications circuits; tests communications circuits and teletype equipment; uses signal generators, meters, distortion analyzers, and monitoring aids; interprets diagrams to determine mode of keying and levels at various points along transmission paths; applies techniques to counteract continuity and fidelity jamming by hostile forces; keeps logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel and equipment; maintains system network operation; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC current, test equipment, and diagrams), 3 in basic electronics (AC current and test equipment), 3 in electronic circuits, and 3 in electronic communications principles, for a total of 12 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in basic electricity (DC current, test equipment, and diagrams), 3 in basic electronics (AC current and test equipment), 3 in electronic circuits, and 3 in electronic communications principles, for a total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS-32D-002

STATION TECHNICAL CONTROLLER

32D10
32D20
32D30
32D40

Exhibit Dates: 3/78–Present. Pending evaluation.

MOS-32E-001

FIXED PLANT CARRIER REPAIRMAN

32E20
32E40

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 32E was discontinued and its functions were incorporated into MOS 26V, Strategic Microwave Systems Repairer.)

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises and performs installation, operation, or maintenance on fixed station carrier, control terminal, multiplex, and submarine cable terminal equipment. *Skill Level 20:* Makes minor adjustments on equipment; replaces malfunctioning equipment; advises superiors of equipment failure or malfunction; keeps technical and administrative records; performs emergency testing and inspects parts; interprets schematics and diagrams; replaces and repairs electric motors and adjusts relays, dials, and switches. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises technical operation and maintenance of the equipment; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in direct current, 3 in alternating current, 3 in communications systems, and 2 in solid state devices, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 11 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in direct current, 3 in alternating current, 3 in communications systems, and 2 in solid state devices, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 17 semester hours (3/76).

MOS-32F-001

FIXED CIPHONY REPAIRMAN

32F20
32F40

Exhibit Dates: 10/73–2/78.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises or performs maintenance on fixed ciphony communications security (COMSEC) equipment. *Skill Level 20:* Performs all level of maintenance on fixed ciphony equipment; adjusts, repairs, and overhauls equipment; isolates and diagnoses malfunctions using electrical and electronic theory; removes, examines, and replaces faulty components and parts; traces circuit continuity; reads schematic and wiring diagrams; keeps maintenance logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation and repair of fixed COMSEC equipment; assigns duties; advises, instructs, and assists subordinates in difficult phases of diagnoses; requisitions supplies and prepares administrative reports; supervises subordinate personnel in the handling of classified information and materials.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in commercial and residential wiring, 2 in digital circuit theory, 2 in AC and DC theory, 2 in electronic test equipment, and 2 in advanced circuit theory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics, 2 in commercial and residential wiring, 2 in electronic instrumentation, and 1 in introduction to digital circuits, for a total of 7 semester hours. Advanced standing in an electronic technician apprentice training program only on the basis of employer or trade association performance examination because of the military nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 4 semester hours in industrial and residential wiring, 3 in basic electronics, 3 in digital circuits, 2 in electronic instrumentation, 2 in electromechanical systems, 3 in human relations, 2 in personnel supervision, and 2 in maintenance supervision, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-32F-002

FIXED CIPHONY REPAIRER

32F10
32F20
32F30
32F40

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications-Electronics Management).

Description

Summary: Repairs and performs maintenance on ciphony communications security equipment. *Skill Level 10:* Repairs equipment according to the appropriate directives and standards; makes operating adjustments and performs routine maintenance; traces circuit continuity; performs authorized equipment modifications in accordance with modification work orders; aligns, adjusts, and test-operates repaired equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; makes regular and emergency repairs to equipment; determines equipment readiness and serviceability; disassembles or removes assemblies and components and replaces faulty items. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs lower skill level personnel in installation, maintenance, repair, modification, and inspection of equipment; assures the safeguarding of classified defense information; prepares work schedules; may supervise from 5 to 9 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; makes continuous appraisal of maintenance operations and training situations; provides technical guidance to lower skill level personnel; coordinates and supervises repair activities and personnel; may supervise 9 or more persons. NOTE: May have progressed to 32F40 from 32F30 or 32G30 (Fixed Cryptographic Equipment Repairer).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 2 in solid-state circuits, 3 in digital circuits, and 3 in troubleshooting techniques, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in AC/DC circuits, 1 in solid-state circuits, 2 in digital circuits, and 1 in troubleshooting techniques, for a total of 9 semester hours (5/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in solid-state circuits, 6 in digital circuits, and 6 in troubleshooting techniques, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in solid-state circuits, 6 in digital circuits, and 4 in troubleshooting techniques, for a total of 19 semester hours (5/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 5 in troubleshooting techniques, 3 in solid-state circuits, 6 in digital circuits, 3 in maintenance management, 3 in human relations, and 3 in personnel supervision, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (5/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in management problems (5/79).

MOS-32G-001

FIXED CRYPTOGRAPHIC EQUIPMENT REPAIRMAN

32G20
32G40

Exhibit Dates: 10/73–2/78.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises or performs maintenance on fixed cryptographic systems communications security (COMSEC) equipment. *Skill Level 20:* Performs all levels of maintenance on fixed systems digital communications security equipment; adjusts, repairs, and overhauls equipment; applies electronic theory and analysis techniques in diagnosis and isolation of malfunctions; removes, examines, and replaces faulty components and parts; traces circuit continuity; properly uses, calibrates, and cares for tools and test equipment; keeps maintenance logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation and maintenance of fixed system COMSEC equipment; assigns duties; advises, instructs, and assists subordinates in difficult phases of diagnoses; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in commercial and residential wiring, 2 in digital circuit fundamentals, 2 in DC and AC theory, 2 in electronic test equipment, and 2 in advanced circuit theory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in digital circuit fundamentals, 2 in basic electronics, 2 in commercial and residential wiring, and 2 in electronic instrumentation, for a total of 9 semester hours. Advanced standing in an electronic technician apprentice training program only on the basis of employer or trade association performance examination because of the military nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 5 semester hours in digital computer circuits, 4 in industrial and residential wiring, 3 in basic electronics, 2 in electronic instrumentation, 2 in electromechanical systems, 3 in human relations, 2 in personnel supervision, and 2 in maintenance supervision, for a total of 23 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-32G-002

FIXED CRYPTOGRAPHIC EQUIPMENT REPAIRER

32G10
32G20
32G30

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Repairs and performs maintenance on cryptographic communications equipment. *Skill Level 10:* Performs minor maintenance and repairs; applies electronic theory and analysis techniques to find and replace defective components; makes operating adjustments on equipment; adjusts, aligns, and test-operates repaired items to assure proper functioning. *Skill Level 20:* Able to perform the duties required for Skill Level 10; makes emergency repairs on equipment; makes determinations of location of systems malfunctions, using localization procedures and techniques. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs lower skill level personnel in installation, maintenance, repair, modification, and inspection of equipment; supervises personnel in preparation of work orders, record keeping, and ordering of stock items; schedules work assignments; prepares administrative and technical reports; may supervise 13 or more persons.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 2 in solid-state circuits, 3 in digital circuits, and 3 in troubleshooting techniques, for a total of 14 semester hours. In the lower-division baccalaureate category, 3 semester hours in introduction to electronics, 2 in AC/DC circuits, 1 in solid-state circuits, 2 in digital circuits, and 1 in troubleshooting techniques, for a total of 9 semester hours (5/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in solid-state circuits, 6 in digital circuits, and 6 in troubleshooting techniques, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in solid-state circuits, 6 in digital circuits, and 4 in troubleshooting techniques, for a total of 19 semester hours (5/79).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 5 in troubleshooting techniques, 3 in solid-state circuits, 6 in digital circuits, 3 in maintenance management, 3 in human relations, and 3 in personnel supervision, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (5/79).

MOS-32H-001

FIXED STATION RADIO REPAIRMAN

32H20
32H40

Exhibit Dates: 10/73-2/78.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises and performs installation, operation, and maintenance on fixed station radio equipment. *Skill Level 20:* Installs, operates, and repairs fixed station radio receiver and transmitter equipment; makes frequency and calibration adjustments; replaces defective radio equipment with operational units; interprets circuit, schematic, and cable diagrams; maintains records on equipment status; uses related equipment, such as antennas and cables; inspects and tests equipment for malfunction; locates faulty components and replaces them with operational components or parts; employs radio troubleshooting techniques with electronic test equipment; operates associated communications equipment, such as carrier and teletypewriters; applies safety precautions pertaining to high voltage. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation, maintenance, and operation of fixed station radio equipment; assigns personnel to duties; advises and instructs personnel; diagnoses and determines causes of equipment malfunction; writes technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic fundamentals (direct current), 3 in electronic fundamentals (alternating current), 3 in electronic circuits, and 3 in electronic devices (solid-state and vacuum tube) for a total of 12 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronics fundamentals (direct current), 3 in electronics fundamentals (alternating current), 3 in radio transmitters and receivers system theory, 3 in electronic circuits, and 3 in electronic devices (solid-state and vacuum tube), for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals (direct current), 3 in electronics fundamentals (alternating current), 3 in radio transmitters and receivers system theory, 3 in electronic circuits, 3 in electronic devices (solid-state and vacuum tube), 3 in human relations, and 3 in personnel supervision, for a total of 21 semester hours. In an electronic technician apprentice training program 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

MOS-32H-002

FIXED STATION RADIO REPAIRER

32H10
32H20
32H30

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Installs, adjusts, aligns, maintains, and troubleshoots fixed high-frequency radio stations, including transmitters, receivers, and antenna systems. *Skill Level 10:* Uses voltmeters, ohmmeters, oscilloscopes, spectrum analyzers, and signal generators; performs preventive and corrective maintenance on receivers, transmitters, and antenna systems; troubleshoots to component level. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; aligns receivers and transmitters to perform to specifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the installation and maintenance of fixed radio stations; advises, instructs, and assigns workloads to subordinate personnel; may supervise more than 20 persons; prepares, reviews, and consolidates technical and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 2 in troubleshooting techniques, 2 in solid-state circuits, and 2 in electronic communications, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in AC/DC circuits, 2 in troubleshooting techniques, 2 in solid-state circuits, and 2 in electronic communications, for a total of 11 semester hours (5/79).

Recommendation, Skill Level 20

In the vocational certificate category, or in the lower-division baccalaureate/assocate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 4 in troubleshooting techniques, 3 in solid-state circuits, and 4 in electrontic communications, for a total of 17 semester hours (5/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 5 in troubleshooting techniques, 3 in solid-state circuits, and 4 in electronic communications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 5 in troubleshooting techniques, 3 in solid-state circuits, 4 in electronic communications, 3 in personnel supervision, 3 in human relations, and 3 in maintenance management, for a total of 27 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (5/79).

MOS-32Z-001

Fixed Station Chief
32Z40
32Z50

Exhibit Dates: 10/73-2/78.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises installation, operation, and maintenance of fixed transmitter, receiver, or terminal equipment. *Skill Level 40:* Able to perform the duties required for 32D40 (Fixed Station Technical Controller), 32E40 (Fixed Station Carrier Repairman), 32F40 (Fixed Ciphony Repairman), 32G40 (Fixed Cryptographic Equipment Repairman), or 32H40 (Fixed Station Repairman); supervises and technically assists in the installation, operation, and maintenance of strategic transmitter, receiver, terminal, microwave, radio relay, message center, data processing, and cryptographic and satellite communications ground station equipment; conducts on-the-job training; oversees station operation and schedules maintenance; diagnoses and resolves equipment malfunctions; prepares technical reports; supervises up to 15 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises the installation, operation, and maintenance of integrated strategic communications systems in a large fixed station installation or serves in a communications headquarters; determines requirements, assigns duties, and coordinates activities of subordinate personnel; plans and supervises technical operations, maintenance of facility equipment, and training of personnel; supervises from 15-30 personnel. May serve as first sergeant of a company, supervising approximately 200 persons; advises company commander on all matters concerning enlisted personnel and is responsible for all enlisted personnel actions; directs and coordinates company administration; disseminates instructions and information to subordinate enlisted supervisors. NOTE: May have progressed to 32Z50 from 32Z40, 32D40 (Fixed Station Technical Controller), 32E40 (Fixed Station Carrier Repairman), 32F40 (Fixed Ciphony Repairman), 32G40 (Fixed Cryptographic Equipment Repairman), 32H40 (Fixed Station Repairman), 26P50 (Radio Propagation Specialist), 26V50 (Strategic Microwave Systems Repairman), or 26Y50 (Satellite Communications Ground Station Equipment Repairman).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 6 for field experience in management, 3 in maintenance management, and 2 in technical report writing, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, 3 in industrial arts education (electronics), and 3 in personnel management, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor at a formal training facility,* 3 additional semester hours for an internship in education, for a total of 18 semester hours (6/76).

MOS-32Z-002

Communications-Electronics
Maintenance Chief
32Z40
32Z50

Exhibit Dates: 3/78-Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Supervises and coordinates the performance of maintenance, calibration, and installation of transmitters, receivers, or terminal communications equipment. *Skill Level 40:* NOTE: May have progressed to 32Z40 from any of the following MOS's: 31E (Field Radio Repairer); 31J (Teletypewriter Repairer); 32H (Fixed Station Radio Repairer); 35E (Special Electronic Devices Repairer); 36L (Electronic Switching Systems Repairer); 26C (Combat Area Surveillance Radar Repairer); and 26B (Weapons Support Radar Repairer); able to supervise, assist, and inspect the duties performed by personnel working in the above MOS's; organizes and supervises personnel and activities of shops and units engaged in the use of communications equipment; reviews and prepares technical reports regarding equipment and personnel; maintains records pertaining to equipment needs of personnel and authorizes supply needs; coordinates the logistics necessary to support the personnel under his command; sets up maintenance calibration, and installation activities; provides guidance regarding unusual equipment malfunctions; instructs in new equipment and procedures; may supervise up to 40 persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40. NOTE: May have progressed to 32Z50 from 32Z40 or from Skill Level 40 of any of the following MOS's: 31S (Field General COMSEC Repairer); 35B (Electronic Instrument Repairer); 36H (Dial/Manual Central Office Repairer); 26L (Tactical Microwave Systems Repairer); 26V (Strategic Microwave Systems Repairer); 26Y (Satellite Communications Ground Station Equipment Repairer); 32F (Fixed Ciphony Repairer); or 35H50 (Calibration Specialist); able to supervise, assist, and inspect duties performed by personnel working in the above MOS's; supervises the installation, operation, and maintenance of integrated strategic communications headquarters; determines requirements, assigns duties, and coordinates activities of subordinate personnel; plans and supervises technical operations, maintenance of facility equipment, and training of personnel; supervises up to 70 persons. May serve as first sergeant of a company, supervising approximately 200 persons; advises company commander on all matters concerning enlisted personnel and is responsible for all enlisted personnel actions; directs and coordinates company administration; disseminates instructions and information to enlisted supervisors.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance management, 3 in techincal report writing, 3 in office management, 3 in human relations and 3 for a technical elective for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in management problems, and 3 in personnel management, for a minimum total of 12 semester hours; *if served as an instructor,* 3 semester hours for a practicum in education, for a total of 15 semester hours (10/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in personnel supervision, 3 in maintenance management, 3 in technical report writing, 3 in office management, 3 in human relations, and 3 in a technical elective, for total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in management problems, 3 in introduction to management and 3 in personnel management, for a minimum total of 15 semester hours; *if served as an instructor,* 3 semester hours for a practicum in education; if duty position *was first sergeant (designated on records as 32Z5M),* 3 additional semester hours in personnel management; *if rank was sergeant major,* 3 additional semester hours in personnel management, and 3 for field experience in management (10/79).

MOS-33B-001

General Intercept Equipment
Repairman
33B20

Exhibit Dates: 10/73-2/74. (Effective 3/74, MOS 33B was discontinued.)

Career Management Field: 33 (Intercept Equipment Maintenance).

Description

NOTE: Many of the duties required for this MOS involve classified materials, equipment, and activities; therefore not all the competencies and knowledges associated with the MOS were evaluated. Performs maintenance on mobile and fixed station general intercept equipment including high frequency receivers, single and dual track magnetic recorders—reproducers, and special demodulators; dismantles and cleans electronic and mechanical components, assemblies, and subassemblies; performs electrical, electronic, and mechanical tests with test equipment and schematic diagrams; isolates defective circuits and parts; determines causes of malfunctions; repairs or replaces defective circuitry, parts and components; aligns electronic circuits; performs authorized modification of equipment; makes authorized substitution of components and parts and fabricates simple parts not requiring machine tooling; test operates repaired equipment; prepares and keeps maintenance records and reports; requisitions parts or supplies; observes safety precautions.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in communications systems, 3 in systems troubleshooting, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, and 1 in digital electronics, for a total of 25 semester hours (9/79).

MOS-33C-001

INTERCEPT RECEIVING SYSTEMS REPAIRMAN

33C20

33C40

Exhibit Dates: 10/73-2/76. (Effective 3/76, MOS 33C was discontinued and its functions were incorporated into MOS 33S, EW/Intercept Systems Repairer). Career Management Field: 33 (Intercept Equipment Maintenance).

Description

Summary: Supervises or assembles, operates, and performs maintenance on intercept receiving systems. NOTE: Many of the duties required for this MOS involve classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Operates and performs maintenance on intercept receiving systems in mobile and fixed stations; assembles, modifies, checks and inspects intercept receiving systems, positions, and facilities; dismantles and cleans electronic and mechanical components, assemblies, and subassemblies; performs electrical, electronic, and mechanical tests with advanced test equipment, schematic diagrams, logic diagrams, and equipment performance standards; isolates defective circuits and parts; determines cause of malfunction; repairs or replaces defective circuitry parts and components; aligns electronic circuits; adjusts mechanical performance of equipment to meet prescribed standards; makes authorized equipment modifications; fabricates parts; test-operates repaired equipment to ensure performance standards are met; prepares and keeps maintenance records and reports; uses pulse and spectrum analyzers, sweep generators, frequency counters, and noise figure meters; uses special and common hand tools; operates microwave, radar, and special purpose systems for repair of equipment; provides technical assistance and advice. NOTE: May have progressed to 33C20 from 33B20 (General Intercept Equipment Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; instructs and provides technical assistance to lower skill level personnel; supervises intercept receiving systems maintenance activities; diagnoses and determines causes of unusual cases of equipment malfunction; explains and interprets complex operating and maintenance problems.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in communications systems, 3 in systems troubleshooting, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, and 1 in digital electronics, for a total of 25 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 34 semester hours (9/79).

MOS-33D-001

INTERCEPT RECORDING SYSTEMS REPAIRMAN

33D20

33D40

Exhibit Dates: 10/73-2/76. (Effective 3/76, MOS 33D was discontinued and its functions were incorporated into MOS 33S, EW/Intercept Systems Repairer.)

Career Management Field: 33 (Intercept Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on intercept recording systems. NOTE: Many of the duties required for this MOS involve classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Performs maintenance on intercept recording systems in mobile and fixed stations; assembles, modifies, checks, and inspects intercept recording/reproducing systems, positions, and facilities; interconnects power supplies, audio, video, direct-current amplifiers, and mechanical tape drive assemblies; aligns electronic components for prescribed gain and frequency response in audio and video amplifiers; performs electrical, electronic, and mechanical tests with advanced test equipment; schematic diagrams, logic diagrams, and equipment performance standards; isolates defective circuits and parts; determines cause of malfunction; dismantles equipment; repairs or replaces defective components, circuitry, and parts; fabricates parts; inspects and adjusts to fine tolerances, motor torque and speed, drive roller and brake tensions, and recording-reproducing head alignment; test-operates repaired equipment to ensure performance standards are met; provides technical assistance and advice; prepares and keeps records applicable to maintenance function. NOTE: May have progressed to 33D20 from 33B20 (General Intercept Equipment Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; instructs and provides technical assistance to lower skill level personnel; supervises maintenance activities; interprets and explains complex maintenance problems; diagnoses and determines causes of unusual cases of equipment malfunction.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in communications systems, 3 in systems troubleshooting, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, and 1 in digital electronics, for a total of 25 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 34 semester hours (9/79).

MOS-33F-001

INTERCEPT DEMULTIPLEX SYSTEMS REPAIRMAN

33F20

33F40

Exhibit Dates: 10/73-2/76. (Effective 3/76, MOS 33F was discontinued and its functions were incorporated into MOS 33S, EW/Intercept Systems Repairer.)

Career Management Field: 33 (Intercept Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on intercept demultiplex systems. NOTE: Many of the duties required for this MOS involve classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Dismantles and cleans equipment; assembles, modifies, checks, and inspects equipment systems, positions, and facilities; interconnects components; performs electronic and mechanical tests with advanced test equipment, schematic diagrams, and equipment performance standards; isolates defective circuits and parts; determines cause of malfunctions; repairs or replaces defective circuitry, parts, and components; aligns electronic circuits; adjusts mechanical performance of equipment to meet prescribed standards; makes authorized equipment modifications; fabricates parts; test-operates repaired equipment to insure that performance standards are met; provides technical advice and assistance; prepares and keeps maintenance records and reports. NOTE: May have progressed to 33F20 from 33B20 (General Intercept Equipment Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; instructs and provides technical assistance to lower skill level personnel; supervises maintenance activities; interprets and explains complex maintenance problems; diagnoses and determines causes of unusual cases of equipment malfunction.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in communications systems, 3 in systems troubleshooting, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, and 1 in digital electronics, for a total of 25 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 34 semester hours (9/79).

MOS-33G-001

ECM/DF Systems Repairman

33G20

33G40

Exhibit Dates: 10/73-2/76. (Effective 3/76, MOS 33G was discontinued and its functions were incorporated into MOS 33S, EW/Intercept Systems Repairer.)

Career Management Field: 33 (Intercept Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on electronic countermeasures and direction-finding systems, positions, and facilities. NOTE: Many of the duties required for this MOS involve classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Performs maintenance on electronic countermeasures and direction-finding equipment; dismantles and cleans equipment; assembles, modifies, checks, and inspects equipment; interconnects antennas, receivers, transmitters, jammers, and associated equipment; performs electrical, electronic, and mechanical tests to insure compliance with performance standards; isolates defective circuitry and parts; determines causes of malfunctions; repairs or replaces defective components, circuitry and parts; aligns electronic circuits; makes authorized equipment modifications; fabricates simple parts; test-operates repaired equipment; provides technical advice and assistance; prepares and keeps maintenance records. NOTE: May have progressed to 33G20 from 33B20 (General Intercept Equipment Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities; instructs lower skill level personnel; interprets and explains complex maintenance problems; diagnoses and determines causes of unusual cases of equipment malfunction.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in communications systems, 3 in systems troubleshooting, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, and 1 in digital electronics, for a total of 25 semester hours (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 34 semester hours. (9/79).

MOS-33S-001

EW/Intercept Systems Repairer (EW/ Intercept Systems Repairman)

33S10

33S20

33S30

33S40

33S50

Exhibit Dates: 3/76-Present.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Supervises or performs maintenance on equipment that operates throughout the frequency spectrum, including receivers, multichannel magnetic sound recorders-reproducers, countermeasures sets, direction finder sets, and special demodulators used in mobile and fixed stations. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Connects equipment to power sources; disassembles and cleans electronic and mechanical components, assemblies, and subassemblies; performs electronic and mechanical tests using test equipment, schematic diagrams, logic diagrams, and equipment performance standards; analyzes operation of malfunctioning equipment to locate defective components, subassemblies, and modules; repairs or replaces defective circuitry, parts, and components, aligns simple electronic circuits and adjusts mechanical performance of equipment to meet prescribed standards; has knowledge of transistors and integrated circuits; makes authorized substitutions of components and fabricates simple parts not requiring machine tooling; test-operates repaired equipment to insure performance and quality standards are met; prepares and maintains maintenance records and reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interconnects antennas, receivers, transmitters, demultiplexers, preamplifiers, frequency converters, power supplies, audio and video amplifiers, and associated equipment according to specifications; uses advanced test measuring and diagnostic equipment; aligns complex electronic components for gain and frequency response in amplifiers; prepares, maintains, and reviews maintenance records and reports; provides technical assistance, guidance, and advice to subordinates on repair and maintenance of electronic systems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; checks system interfacing to insure that performance meets required system standards; performs equality control inspections of maintenance performed; recommends design changes on unsatisfactory equipment, positions, and facilities; prepares and consolidates technical reports and maintenance records; diagnoses unusual cases of system malfunctions; interprets and explains complex operating and maintenance problems; supervises and instructs subordinate personnel and knows supply procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities and assigns work to subordinate personnel; assists in the supervision of personnel making complex modifications and repairs; instructs and demonstrates diagnostic and repair procedures and use of advanced test equipment and tools; plans and supervises maintenance for mobile and fixed station facilities; recommends changes in work procedures; assists in preparation of maintenance schedules; makes oral presentations concerning maintenance activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a maintenance manager of an activity of up to 175 persons; prepares lesson plans; approves changes in work procedures; reports on unsatisfactory equipment and circuitry; recommends equipment design changes and reports on efficiency of changes performed; assists in technical inspections and evaluates the effectiveness of maintenance procedures and practices; supervises personnel performing complex modifications and repairs on intercept and deception-jamming systems; evaluates subordinates; advises commander on matters of personnel welfare, morale, assignment, utilization, promotion, privileges, discipline, and training; interprets and explains technical literature on the operation and maintenance of general and special types of intercept and deception-jamming systems; prepares maintenance schedules; may serve as a chief instructor in a formal training facility; may have experience as the enlisted commander of a detachment; may have served as the first sergeant of a company.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in communications systems, 3 in systems troubleshooting, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, and 1 in digital electronics, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 34 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 3 in shop management, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 37 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in resource management, and 3 in personnel management, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a total of 18 semester hours (6/77).

MOS-33Z-001

INTERCEPT SYSTEMS MAINTENANCE SUPERVISOR

33Z40

33Z50

Exhibit Dates: 10/73-2/76. (Effective 3/76, MOS 33Z was discontinued and its functions were incorporated into MOS 33S, EW/Intercept Systems Repairer).

Career Management Field: 33 (Intercept Equipment Maintenance).

Description

Summary: Supervises maintenance on intercept equipment. NOTE: Many of the duties required for this MOS involve classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 40:* Must be able to perform the duties required for MOS 33C (Intercept Receiving Systems Repairman), MOS 33D (Intercept Recording Systems Repairman), MOS 33F (Intercept Demultiplex Systems Repairman), and MOS 33G (ECM/DF Systems Repairman); serves as maintenance supervisor on intercept systems; establishes work priorities and assigns repair specialists; assists in supervision of personnel making complex authorized modifications on intercept and deception-jamming systems; explains complex electronic, mechanical, and solid-state concepts; instructs and demonstrates diagnostic and repair procedures and utilization of special test equipment and tools; diagnoses causes of unusual equipment malfunction; determines technical operating difficulties; plans and supervises operations of maintenance shop in tactical unit and fixed station facility. NOTE: May have progressed to 33Z40 from 33C40 (Intercept Receiving Systems Repairman), 33D40 (Intercept Recording Systems Repairman), 33F40 (Intercept Demultiplex Systems Repairman), or 33G40 (ECM/DF Systems Repairman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as maintenance chief at battalion, field station, or higher headquarters; prepares lesson plans and demonstrations; recommends changes in work procedures; reports on unsatisfactory equipment and circuitry within intercept and deception-jamming systems; recommends equipment design changes; assists in technical inspections; prepares technical reports and maintenance records; provides technical guidance to maintenance personnel performing complex repairs on equipment; prepares maintenance schedules.

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 in shop management, 3 for field experience in personnel supervision, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 37 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/79).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in resource management, and 3 in personnel management, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a total of 18 semester hours (9/79).

MOS-34B-001

TABULATING EQUIPMENT REPAIRMAN

34B10

34B20

34B30

34B40

Exhibit Dates: 9/75-8/78.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on electrical accounting machines. *Skill Level 10:* Inspects, tests, adjusts, and maintains electrical accounting machine equipment; locates and determines causes of malfunction; replaces pins, gears, arms, shafts, and rollers; cleans, oils, and lubricates equipment; reads wiring diagrams and mechanical blueprints; computes voltage, amperage, and resistance factors; employs safety precautions when working with high voltages. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects electrical accounting equipment to insure proper operation; adjusts or repairs improperly working electrical accounting equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a senior tabulating equipment repairman; performs or assists in supervising maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as chief tabulating equipment repairman; supervises 5 or more tabulating equipment repairmen.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals and 3 in office equipment repair (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electrical fundamentals and 3 in office equipment repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals, 3 in office equipment repair, and 3 for field experience in office machine repair, for a total of 9 semester hours (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electrical fundamentals and 3 in office equipment repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals, 3 in office equipment repair, 3 for field experience in office machine repair, and 3 in human relations, for a total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electrical fundamentals and 3 in office equipment repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals, 3 in office equipment repair, 3 for field experience in office machine repair, 3 in human relations, and 3 for field experience in maintenance management, for a total of 15 semester hours (5/76).

MOS-34B-002

PUNCH CARD MACHINE REPAIRER

34B10

34B20

34B30

34B40

Exhibit Dates: 9/78-Present. Pending evaluation.

MOS-34C-001

Decentralized Automated Service Support System

34C20
34C30
34C40

Exhibit Dates: 3/79–Present. Pending evaluation.

MOS-34D-001

ADPS (Automatic Data Processing Systems) Repairman

34D20
34D50

Exhibit Dates: 10/73–8/75. (Effective 9/75, MOS 34D was discontinued and its functions were incorporated into the other data processing equipment maintenance MOS's in subfield 742.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs on-site maintenance and malfunction isolation of digital computers, peripheral equipment, and subscriber terminals (input/output devices); reads and interprets schematic diagrams, truth tables, logic diagrams, and flow charts. *Skill Level 20:* Applies electronic and logic theory in trouble diagnosis; uses test equipment such as VOM and oscilloscope for troubleshooting and repair; understands digital computer principles and operation; performs flow chart and diagnostic routine operations; lubricates and cleans equipment as required. *Skill Level 50:* Able to perform the duties required for Skill Level 20; provides technical assistance for complex problem diagnosis; supervises on-site computer maintenance and repair; schedules maintenance periods and coordinates work flow; supervises Skill Level 20 personnel, providing technical guidance and appraising performance.

Recommendation, Skill Level 20

In the vocational certificate category, a minimum of 18 semester hours in computer science, and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, a minimum of 12 semester hours in computer science, and additional credit on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction in office machine repair, and additional hours on the basis of employer or trade association performance examination (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, a minimum of 18 semester hours in computer science, additional credit in computer science on the basis of institutional evaluation, and 3 semester hours for a practicum in business management, for a minimum total of 21 semester hours. In the lower-division baccalaureate/associate degree category, a minimum of 12 semester hours in computer science, additional credit in computer science on the basis of institutional evaluation, and 3 semester hours for a practicum in business management, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours for a practicum in business management. In an electronic technician apprentice training program, 3,000 clock hours of experience and 150 contact hours of related instruction in office machine repair (2/75).

MOS-34E-001

NCR 500 Computer Repairer
(NCR 500 Computer Repairman)

34E20
34E30
34E40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the NCR 500 computer. *Skill Level 20:* Performs routine maintenance on NCR 500 equipment; determines and repairs common electrical, electronic, and mechanical malfunctions; interprets circuit diagrams and technical literature; prescribes test procedures; uses specialized test equipment, including multimeters, checking processors (tube, transistor, and circuit), and oscilloscopes. *Skill Level 30:* Performs the duties required for Skill Level 20 and repairs console panels, processor, memory unit, arithmetic, power supply, card reader and controller, punched card peripheral equipment, and auxiliary units; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on NCR 500 equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuit applications, 2 in basic mathematics, 2 in introduction to digital and logic theory, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, and 2 in instrument applications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice-training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-34F-001

DSTE Repairer
(DSTE Repairman)

34F20
34F30
34F40

Exhibit Dates: 10/73–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on Digital Subscriber Terminal Equipment (DSTE). *Skill Level 20:* Performs routine maintenance on DSTE equipment; determines and repairs common electrical, electronic, and mechanical malfunctions; interprets circuit diagrams and technical literature; prescribes test procedures; uses specialized test equipment, including multimeters, checking processors (tube, transistor, and circuit), and oscilloscopes. *Skill Level 30:* Able to perform the duties required for Skill Level 20: performs inspections on systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on DSTE equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuit applications, 2 in basic mathematics, 2 in introduction to digital and logic theory, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, and 2 in instrument applications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-34G-001

Fire Control Computer Repairer
(Fire Control Computer Repairman)

34G10
34G20
34G30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Supervises or performs maintenance on fire control gun directional digital computer, viewer computer systems, laser rangefinders, electronic analog computers, and related test equipment. *Skill Level 10:* Maintains field artillery digital automatic computer system, AR-85Z viewer computer, electronic analog computers, and laser rangefinders; uses and maintains special electronic and mechanical systems test equipment and electrician's and mechanic's hand tools; determines causes of malfunctions and removes and replaces defective electronic, electrical, and mechanical components; seals, spot paints, and purges and charges laser rangefinder components with nitrogen, as required; interprets complex schematic diagrams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs support and depot maintenance on AR-85A viewer computer; provides technical guidance to Skill Level 10 personnel; supervises or installs equipment modifications; diagnoses complex malfunctions; conducts on-the-job training; maintains maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; instructs Skill Level 10 and 20 personnel in troubleshooting, proper repair methods, and maintenance techniques and procedures; establishes maintenance priorities and schedules and assigns work; performs final inspection and testing of repaired equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in use and care of hand and power tools, 3 in the use and maintenance of testing equipment, 3 in electrical wiring systems, and 3 in basic electronics, and additional credit in these areas on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in technical mathematics, and additional credit in electronics, electricity, applied physics, mathematics, and computer maintenance on the basis of institutional evaluation, for a minimum total of 6 semester hours. In an electronics technician apprentice training program, 500 clock hours of experience and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in use and care of hand and power tools, 3 in use and maintenance of testing equipment, 3 in electrical wiring systems and 5 in basic electronics, and additional credit in these areas on the basis of institutional evaluation, for a minimum total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in technical mathematics, 6 in shop practices, and 3 in personnel supervision and training, and additional credit in electronics, electricity, mathematics, applied physics, and computer maintenance on the basis of institutional evaluation, for a minimum total of 15 semester hours. In an electronics technician apprentice training program, 1,500 clock hours of experience and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in technical mathematics, 3 in personnel supervision, 6 in shop practices, and 1 in records administration, and additional credit in electronics, electricity, mathematics, applied physics, and computer maintenance on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, *only if the duty assignment was fire control computer repair foreman.* In an electronics technician apprentice training program, 3,000 clock hours of experience and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS-34H-001

ADMSE REPAIRMAN

34H20
34H30
34H40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on Automatic Digital Message Switch Equipment (ADMSE). *Skill Level 20:* Performs routine maintenance on ADMSE equipment; determines and repairs common electrical, electronic, and mechanical malfunctions; interprets circuit diagrams and technical literature; prescribes test procedures; uses specialized test equipment, including multimeters, checking processors (tube, transistor, and circuit), and oscilloscopes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs inspections on systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on ADMS equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuit applications, 2 in basic mathematics, 2 in introduction to digital and logic theory, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices and 2 in instrument applications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, and 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-34J-001

UNIVAC 1004/1005, DCT-9000 SYSTEM REPAIRER
(UNIVAC 1004/1005, DCT-9000 SYSTEM REPAIRMAN)

34J20
34J30
34J40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the UNIVAC 1004/1005, DCT-9000 computer system and peripheral equipment. *Skill Level 20:* Performs maintenance on computer input-output equipment (card and paper tape processors); follows schematic diagrams and maintenance manuals in determining the nature, location, and extent of malfunctions in either electrical or mechanical equipment; uses specialized test equipment, including multimeters, oscilloscopes, transistor- and tube-checkers, and pulse generators; performs inspections, adjustments, repairs, and modifications as specified in official technical manuals. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections of systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on UNIVAC and DCT-9000 systems.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuits applications, 2 in basic mathematics or introduction to algebra, 2 in basic electronics (AC/DC theory), 2 in amplifier devices (tubes, transistors), 2 in basic electronics laboratory, and 1 in instrument applications, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics theory/laboratory and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction. In a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction. In an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division bacca-

laureate/associate degree category, 3 semester hours in basic electronics theory/laboratory, 3 in industrial arts, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-34K-001

IBM 360 Repairer
(IBM 360 Repairman)

34K20
34K30
34K40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the IBM 360 computer and peripheral equipment. *Skill Level 20:* Performs maintenance on the IBM 360 computer and peripheral equipment, including console control panels, processor, memory unit, arithmetic, power supply, card reader and controller, and auxiliary units; uses specialized equipment, including multimeters, oscilloscopes, tube- and transistor-testers, and pulse generators; performs preventive and routine maintenance of tools and test equipment; interprets technical manuals and schematic diagrams; adjusts, troubleshoots, and repairs various electrical devices, electronic circuit components and electromechanical systems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections and adjustments with diagnostic test programs and special equipment; may supervise up to 15 lower skill level personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on IBM 360 computer system.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices, 3 in electronic circuit applications, 2 in basic mathematics, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, 2 in digital-logic systems, and 1 in instrument applications, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 2 in basic electronics, 2 in transistor theory, and 2 in introduction to computer circuits, for a total of 8 semester hours. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 2 in basic electronics, 2 in transistor theory, 2 in introduction to computer circuits, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 11 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-34L-001

ADMS Peripheral Equipment
Repairman

34L20
34L30
34L40

Exhibit Dates: 9/75–8/77. (Effective 9/77, MOS 34L was discontinued and its functions were incorporated into MOS 34H, ADMSE Repairer.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the Automatic Digital Message Switching (ADMS) peripheral equipment. *Skill Level 20:* Performs maintenance on ADMS peripheral equipment, including punched card subsystem, card reader, high speed printer subsystem, magnetic tape subsystem, and Systems Command Terminal; interprets technical manuals and schematic diagrams; uses specialized test equipment, including multimeters, oscilloscopes, tube- and transistor-checkers, and pulse generators; performs preventive and routine maintenance on electrical devices, electronic circuit components, and electromechanical apparatus; keeps maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections and adjustments; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on ADMS peripheral equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electronic circuit applications, 3 in electromechanical devices and systems, 2 in basic mathematics, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, 1 in instrument applications, and 1 in logic and digital principles, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction. In a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction. In an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, 3 in human relations, and additonal credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-34M-001

SDS 920 Equipment Repairman

34M20
34M30
34M40

Exhibit Dates: 9/75–2/77. (Effective 3/77, MOS 34M was discontinued.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on SDS 920 computer, including peripheral equipment and auxiliary units. *Skill Level 20:* Interprets schematic diagrams and maintenance manuals in determining the nature, location, and extent of malfunctions in either electrical or mechanical equipment; uses specialized test equipment, including multimeters, oscilloscopes, transistor- and tube-checkers, and pulse generators; performs inspections, adjustments, repairs, and modifications from technical manuals. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections of systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on SDS 920 computer systems.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electronic circuit applications, 3 in electromechanical devices and systems, 2 in basic mathematics, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, 1 in instrument applications, and 1 in logic and digital principles, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction. In a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction. In an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, and 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS-34Z-001

ADPS (AUTOMATIC DATA PROCESSING SYSTEMS) MAINTENANCE SUPERVISOR

34Z50

Exhibit Dates: 9/75-Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Supervises Skill Level 40 personnel in subfield 742 (data processing equipment maintenance); supervises ADP maintenance activities; diagnoses and evaluates complex malfunctions; determines length of time, tools, and parts required to repair malfunctioning computer or related equipment; provides technical guidance to subordinate personnel and to superiors; evaluates quality of maintenance work, corrects faulty work practices, and instructs maintenance personnel in proper work procedures; may serve as a chief instructor at a formal training facility. NOTE: May have progressed to 34Z50 from any MOS in subfield 742.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 in maintenance management, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in industrial arts education, and 3 for field experience in management, for a minimum total of 9 semester hours; and 3 additional semester hours for field experience in management on the basis of institutional evaluation, for a total of 12 semester hours; and, *if the duty assignment was chief instructor,* 3 semester hours for an internship in education, for a maximum total of 15 semester hours. NOTE: Consult the exhibits for previously held MOS's for credit recommended for automatic data processing equipment maintenance (6/76).

MOS-35B-001

ELECTRONIC INSTRUMENT REPAIRMAN

35B20
35B30
35B40

Exhibit Dates: 10/73-4/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs maintenance calibration and support maintenance on radiation detectors, lie detectors, and electrical/electronic measuring and test equipment. *Skill Level 20:* Performs checks to detect malfunction or nonfunction of instruments and extent of maintenance required; disassembles, repairs, and retests instruments; uses common and specialized hand tools, measuring instruments, and testing devices; performs basic Ohm's law computations; interprets schematic and wiring diagrams. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs detailed testing on and repairs advanced electronic test equipment, including pulse scopes, digital frequency counters, spectrum analyzers, microwave/radar test equipment, differential and digital voltmeters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises repair and maintenance calibration of electronic test equipment; instructs subordinates in support maintenance procedures, schedules repair operations, keeps records, maintains a supply of spare parts, prepares administrative and technical reports, and diagnoses unusual cases of malfunction or nonfunction; supervises a minimum of eight personnel.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in instrumentation laboratory or electronic maintenance, and 6 in introductory electricity/electronics. In the lower-division baccalaureate/associate degree category, 6 semester hours in introductory electricity/electronics, and credit in instrumentation laboratory or electronic maintenance on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in instrumentation laboratory or electronic maintenance, and 3 in electronic troubleshooting. In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity/electronics, and credit in instrumentation laboratory or electronic maintenance on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 3,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in instrument laboratory or electronic maintenance, and 3 in electronics troubleshooting. In the lower-division baccalaureate/associate degree category, 6 semester hours in introductory electricity/electronics, 3 for a personnel management practicum, and credit in instrumentation laboratory or electronic maintenance on the basis of institutional evaluation, for a minimum of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management, and credit in industrial arts and for a practicum in business management on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

MOS-35B-002

ELECTRONIC INSTRUMENT REPAIRMAN

35B20
35B30
35B40

Exhibit Dates: 5/77-2/78.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs maintenance, repair, and calibration of radiac instruments, polygraph equipment, and electrical/electronic measuring and test equipment. *Skill Level 20:* Tests instruments and equipment to determine cause of malfunction; dismantles assemblies to inspect, remove, and replace components; repairs circuit wiring; performs calibration and final test of repaired equipment to comply with technical manual instructions, manufacturers' specifications, or equipment standards; tests electrical/electronic equipment, including ammeters, voltmeters, vacuum tube voltmeters, signal generators, tube and transistor testers, oscilloscopes, frequency meters and counters; uses common and specialized hand tools, measuring instruments, and testing devices; performs basic Ohm's law computations; interprets schematic and wiring diagrams; tests, troubleshoots, repairs, and adjusts radiac instruments to specified tolerances. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs detailed tests on and repairs advanced electronic test equipment, including pulse scopes, digital frequency counters, precision frequency meters, spectrum analyzers, panoramic indicators, microwave/radar test equipment, summation bridges, differential and digital voltmeters; performs final testing and calibration. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a minimum of 8 subordinates engaged in the repair and calibration of electronic test equipment; diagnoses unusual causes of malfunction; assigns personnel to specific duties; demonstrates proper maintenance procedures, practices, and techniques; plans and schedules repair, maintenance calibration, and certification of equipment; keeps equipment records; inventories and requisitions parts and supplies; establishes files of technical publications; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in introductory electricity/electronics, 3 in technical mathematics, and 3 in instrumentation laboratory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in transistor theory, and 2 in technical mathematics, and additional credit in instrumentation on the basis of institutional evaluation, for a minimum total of 8 semester hours. In an electronic instrument repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction (5/77).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in electricity/electronics, 6 in instrumentation laboratory, and 3 in technical mathematics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in transistor theory, 3 in instrumentation laboratory, and 2 in technical mathematics, for a total of 11 semester hours. In an electronic instrument repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in electricity/electronics, 6 in instrumentation laboratory, 3 in technical mathematics, 3 in electronics troubleshooting, and 1 in use of technical publications, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in transistor theory, 3 in instrumentation laboratory, 2 in technical mathematics, 3 in human relations, 3 in personnel supervision, 2 in record keeping, and 1 in technical report writing, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management and additional credit in industrial arts and for field experience in management on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (5/77).

MOS-35B-003

Electronic Instrument Repairer

35B10
35B20
35B30
35B40

Exhibit Dates: 3/78–Present.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Performs maintenance, repair, and calibration of radiac instruments, polygraph equipment, and electrical/electronic measuring and test equipment. *Skill Level 10:* Performs maintenance, repair, calibration, and testing of electrical and electronic test measuring and diagnostic equipment; troubleshoots equipment; dismantles equipment to inspect, remove, and replace components; repairs circuit wiring; adjusts, aligns, and performs maintenance calibration of repaired equipment using vacuum tube voltmeters, multimeters, signal generators, oscilloscopes, frequency meters, and counters; uses common and specialized tools; performs basic Ohm's law computations; interprets schematics and wiring diagrams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs maintenance on test measuring diagnostic equipment; provides technical guidance to Skill Level 10 personnel; utilizes electronic equipment in electronic maintenance vans and computer automatic test equipment; inspects, troubleshoots, repairs, calibrates test sets in support of telephone, telegraph, teletype, microwave, radar, radio/carrier, and avionics equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs detailed tests on and repairs advanced electronic test equipment, including pulse scopes, digital frequency counters, precision frequency meters, spectrum analyzers, panoramic indicators, microwave/radar test equipment, summation bridges, differential and digital voltmeters; performs final testing and calibration; inspects and checks maintenance performed for adequacy and suitability; establishes production and quality control procedures; requisitions parts and supplies; maintains records, references, and reports; keeps equipment records; establishes files of technical literature; assigns duties. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises from 5–9 lower skill level personnel; plans and schedules repairs; supervises overall repair functions; instructs personnel in maintenance procedures, practices, and techniques; prepares administrative and technical reports.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic AC/DC theory, 3 in technical mathematics, and 3 in instrument laboratory, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory and 3 in instrument laboratory (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic AC/DC theory, 3 in technical mathematics, 3 in instrument laboratory, and 3 in transistor theory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 2 in technical mathematics, 3 in instrument laboratory, and 3 in basic electronics, for a total of 11 semester hours (10/79).

Recommemdation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 2 in technical mathematics, 3 in instrument laboratory, 3 in basic electronics, and 3 in human relations, for a total of 14 semester hours (10/79).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 2 in technical mathematics, 3 in instrument laboratory, 3 in basic electronics, 3 in human relations, 3 in personnel supervision, and 3 in introduction to management, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/79).

MOS-35D-001

Meteorological Equipment Repairman

35D20
35D30

Exhibit Dates: 10/73–2/78. (Effective 3/78, MOS 35D was discontinued and its functions were incorporated into MOS 26B, Weapons Support Radar Repairer; MOS 35E, Special Electrical Devices Repairer; and MOS 93F, Field Artillery Meteorological Crewman.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Performs maintenance on electrical, electronic, and electromechanical weather equipment employed in meteorological units. *Skill Level 20:* Performs operational maintenance; assists in siting and operating meterological equipment; keeps test and maintenance records; assists in maintaining proper supply levels of spare parts and expendable supplies; repairs circuit wiring; traces circuit continuity to identify malfunctions; troubleshoots such items as radiosonde, radio direction finder, radiosonde recorder, and frequency standard. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs direct and general support maintenance on electronic and electrical meteorological equipment; troubleshoots and repairs equipment such as barometric pressure, temperature, and wind measuring and recording instruments; inspects repairs and determines the adequacy of maintenance performed. NOTE: May progress from 35D30 to 35H50 (Calibration Specialist).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours in basic electronics, 4 in fundamentals of DC and AC electrical circuits, and 3 in electrical and electronic laboratory, for a total of 12 semester hours (11/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in basic electronics, 4 in DC and AC electrical circuits, 3 in electrical and electronic laboratory, 3 in technical report writing, 3 in electronic circuits, and 3 in electronic tests and measurements, for a total of 21 semester hours (11/75).

MOS-35E-001

Special Electrical Devices Repairman

35E20
35E30
35E40

Exhibit Dates: 10/73–2/78.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 352 (Electrical/Electronic Devices Maintenance).

Description

Summary: Performs complex maintenance procedures on specialized electrical and electronic measurement equipment; assists with maintenance of electro-optical vision equipment and detection equipment; applies schematic tracing skills and basic electronics theory in troubleshooting malfunctions; performs repairs, replacements, or modifications in compliance with technical manuals; uses specialized tools and test equipment in diagnosing symptoms and in locating problems in circuits down to discrete electrical components; regularly updates maintenance manual, records, and supply stock. *Skill Level 20:* Performs maintenance on electronic orientation, surveillance, measurement, vision, and detection equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may supervise up to 5 persons in a maintenance facility. *Skill Level 40:* Able to perform the duties required for Skill Level 30; possesses advanced knowledge and more varied experience on specialized electrical and electronic equipment; supervises from 10 to 30 persons; prepares technical reports; plans maintenance activities; gives direction and instruction in resolving complex maintenance problems.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in basic electronics, 3 in industrial electronic instrumentation, and 3 in

AR-1715-0453
Fixed Station Radio Equipment Operation and Maintenance
AR-1715-0110
Fixed Station Radio Receiver Repair
AR-1715-0055
Fixed Station Radio Repair
AR-1715-0056
Fixed Station Radio Repair by Correspondence
AR-1715-0442
Fixed Station Radio Transmitter Repair
AR-1715-0057
High Speed Radio Operation
AR-1404-0010
Infantry Radio Maintenance
AR-1715-0108
Microwave Radio Equipment Repair
AR-1715-0272
Microwave Radio Officer
AR-1715-0251
Microwave Radio Relay Operation
AR-1715-0152
Radio and Television Production Specialist
DD-0505-0001
Radio-Controlled Airplane Target Radio Maintenance
AR-1715-0181
Radio-Controlled Airplane Targets Operation
AR-2201-0087
Radio Fingerprinting
AR-1715-0333
Radio Fundamentals by Correspondence
AR-1715-0483
Radio Officer
AR-1715-0186
Radio Operator
AR-1715-0095
Radio Operator by Correspondence
AR-1715-0457
Radio Operator Noncommissioned Officer (NCO) Basic
AR-2201-0083
Radio Operator Noncommissioned Officer (NCO) Supervisor Candidate
AR-1404-0008
Radio Propagation
AR-1715-0182
Radio Relay and Carrier Attendant
AR-1715-0053
Radio Relay and Carrier Attendant Skill Development Base
AR-1715-0064
Radio Relay and Carrier Operation
AR-1715-0053
Radio Relay and Carrier Repair
AR-1715-0111
Radio Set AN/FRC-109 Repair
AR-1715-0052
Radio Set AN/FRC-113 Operation and Maintenance
AR-1715-0427
Radio Set LRC-3 Repair
AR-1715-0183
Radio Systems Officer
AR-1715-0071
Radio Systems Officer by Correspondence
AR-1715-0460
Radio Teletype Operation
AR-1404-0009
Radio Teletype Operator
AR-1404-0009
Radio Teletype Operator Noncommissioned Officer (NCO) Basic
AR-1408-0024
Radio Teletype Operator Skill Development Base
AR-1715-0247
Radio Teletypewriter Analysis
AR-1606-0016
Radio Teletypewriter Operator
AR-1404-0009
Radio Teletypewriter Operator by Correspondence
AR-1404-0025
Radio Teletypewriter Operator (Non Morse)
AR-1409-0005
Radio Terminal Set AN/TRC-90 (RF Portion)
AR-1715-0072
Radio Terminal Sets AN/TRC-90/129/132 Repair
AR-1715-0072
Radio Traffic Analyst
AR-1606-0012
Radio Wave Propagation
AR-1715-0182
RCAT Radio Maintenance
AR-1715-0181
Supervisory Microwave Radio Maintenance
AR-1715-0027
Voice Radio Operator
AR-1404-0017

Radiographic
Radiographic Procedures (Basic)
AR-0705-0001

Radiological
Chemical, Biological, Radiological Enlisted
AR-0802-0003
Chemical, Biological, Radiological Enlisted with ARADCOM Track
AR-0802-0003
Nuclear Weapons Employment and Radiological Defense
AR-0802-0004
Nuclear Weapons Employment and Radiological Warfare
AR-0802-0004
Radiological Safety
AR-0705-0003
USARADCOM Chemical, Biological, and Radiological Noncommissioned Officer (NCO)
AR-2201-0067

Radioteletypewriter
Radioteletypewriter Repair
AR-1715-0318

Railway
Railway Car Repair
AR-1710-0006
Railway Dispatching
AR-0419-0014
Railway Locomotive Operation
AR-0419-0030
Railway Maintenance and Operations Officer
AR-1710-0047
Railway Operations
AR-0419-0007
Railway Section Foreman
AR-1710-0005
Railway Shop Foreman
AR-1710-0007
Railway Trainman
AR-0419-0029

Ranger
Ranger
AR-2201-0041

Ranging
Artillery Flash Ranging Advanced
AR-1601-0025
Artillery Sound Ranging
AR-1715-0153
Artillery Sound Ranging (Advanced)
AR-1715-0153
Sound Ranging Crewman
AR-1715-0153
Sound Ranging Crewman Noncommissioned Officer (NCO) Basic
AR-1715-0386

RCAT
RCAT Airframe and Engine Maintenance
AR-1704-0077
RCAT Operations
AR-2201-0087
RCAT Radio Maintenance
AR-1715-0181

Readiness
Aviation Commander's Readiness
AR-1408-0036

Receiver
Fixed Station Radio Receiver Repair
AR-1715-0055
Fixed Station Receiver Repair
AR-1715-0055

Receiving
Electronic Countermeasures Receiving System Maintenance (AN/TLQ-17)
AR-1715-0418
Electronic Warfare (EW) Countermeasures Receiving System Operator
AR-2201-0208
Electronic Warfare (EW) Countermeasures Receiving Systems Operations
AR-2201-0208
Intercept Receiving Systems Repairman
AR-1715-0138
Special Purpose Receiving Systems Maintenance
AR-1715-0407
Tactical Countermeasures Receiving Systems Maintenance (AN/MLQ-24)
AR-1715-0416

Reciprocating
Aircraft Reciprocating Engine Repair
AR-1704-0026

Reconditioning
Physical Reconditioning Specialist
AR-0704-0003

Reconnaissance
Reconnaissance Helicopter Maintenance
AR-1704-0084
Reconnaissance Helicopter Repair
AR-1704-0059

Recording
Intercept Recording Systems Repairman
AR-1715-0139

Records
Ammunition Records
AR-2201-0132
Ammunition Records Clerk, Skill Development Base
AR-1405-0054
Medical Records and Reports (Basic)
AR-1403-0001
Medical Records Specialist

AR-1403-0001
Personnel Records Specialist AR-1406-0011

Recovery
Recovery and Evacuation AR-1703-0004

Recreation
Recreation Services Officer AR-0804-0002
Recreation Services (SS-CMF) Noncommissioned Officer (NCO) Advanced AR-1408-0004

Recruit
Recruit Training AR-2201-0197

Recruiter
Army Recruiter and Career Counselor NCO Advanced Assignment AR-1408-0048
Recruiter AR-1406-0027
Reserve Components Recruiter AR-1406-0030

Recruiting
Army Recruiting and Career Counseling AR-1406-0020
Military Personnel Recruiting WAC/ANC Officer AR-1406-0015
Recruiting AR-1406-0013
Recruiting and Reenlistment Officer AR-1406-0008
Recruiting, Enlisted AR-1406-0013
Recruiting Indoctrination—WAC Officer AR-1406-0012
Recruiting Management Officer AR-1406-0014
Recruiting, Reenlistment and Induction Officer AR-1406-0008
Recruiting Station Commanders AR-1406-0032
Recruiting, WAC Enlisted AR-2201-0032
Reserve Components Recruiting and Retention Training AR-1406-0030

Recruitment
Recruitment and Retention Noncommissioned Officer (NCO) Advanced AR-1408-0048

Redeye
Combat Missile System Repair (Redeye-Shillelagh-Tow) AR-1715-0115
Redeye Weapon System Repair AR-1715-0301

Redstone
Ballistic Missile Test Instrument Repair (Redstone) AR-1715-0348
Redstone Electronic Materiel Maintenance AR-1715-0080
Redstone Mechanical Materiel Maintenance AR-1715-0244
Redstone Officer AR-1715-0309

Reenlistment
Army Reenlistment AR-1406-0020
Recruiting and Reenlistment Officer AR-1406-0008
Recruiting, Reenlistment and Induction Officer AR-1406-0008

Refrigeration
Refrigeration Equipment Repair AR-1730-0001

Rehabilitation
Drug and Alcohol Rehabilitation AR-0799-0009
U.S. Army Drug and Alcohol Rehabilitation Training (Advanced) AR-0801-0003

REL-2600
Tropospheric Scatter Terminal REL-2600 Repair AR-1715-0030

Relay
Field Radio Relay Equipment Repair, Skill Development Base AR-1715-0049
Radio Relay and Carrier Attendant AR-1715-0053
Radio Relay and Carrier Attendant Skill Development Base AR-1715-0064
Radio Relay and Carrier Operation AR-1715-0053
Radio Relay and Carrier Repair AR-1715-0111

Reliability
Reliability Engineering AR-1115-0005

Remote
Antiaircraft Artillery Remote Control Repair AR-1714-0005
Antiaircraft Artillery Remote Control Repair (Basic) AR-1715-0285
Remote Control System Maintenance (AN/URR-66) AR-1715-0412

Renovation
Ammunition Renovation AR-2201-0021
Service and Renovation (SR-CMF) Noncommissioned (NCO) Basic AR-2201-0074
Service and Renovation (SR-CMF) Noncommissioned Officer (NCO) Advanced AR-2201-0073

Repairer
Meteorological Equipment Repairer AR-1721-0008

Repeater
Repeater and Carrier Equipment Installation and Maintenance AR-1715-0111

Reports
Medical Records and Reports (Basic) AR-1403-0001

Reproduction
Decca Charting and Reproduction AR-1713-0001
Reproduction Equipment Repair AR-1706-0001
DD-1706-0002

Requirements
Requirements Management AR-1405-0057

Research
Intelligence Research Officer Transition AR-1606-0080
Operations Research Models and Techniques AR-0317-0002
Operations Research/Systems Analysis Executive AR-0317-0001
Probabilistic Methods in Operations Research AR-1115-0002

Reserve
Advanced Investigative Management (Reserve Component) AR-1408-0083
Armor Officer Advanced - Reserve Component AR-2201-0165
Armor Officer Basic-Reserve Component AR-1710-0057
Army Medical Department (AMEDD) Reserve Component General Staff AR-0799-0004
Criminal Investigation Reserve Component (Nonresident/Resident) AR-1728-0056
Dental Laboratory Specialist (Basic) Reserve Component (Nonresident/Resident) AR-0701-0010
Dental Specialist Reserve Component (Nonresident/Resident) AR-0701-0009
Engineer Officer Advanced Reserve Component AR-1601-0050
Engineer Officer Basic Reserve Component AR-1601-0051
Environmental Health Specialist Reserve Component (Nonresident/Resident) AR-0707-0007
Foreign Area Officer Reserve Component AR-1511-0001
Hospital Food Service Specialist (Basic) Reserve Component (Correspondence, Resident, Nonresident). AR-1729-0016
Infantry Officer Advanced Reserve Components AR-2201-0223
Information Officer (Reserve Component) DD-0504-0011
Medical Supply Specialist Reserve Component (Nonresident/ Resident) AR-1405-0051
Military Police Investigation Reserve Component (Nonresident/ Resident) AR-1728-0057
Patient Administration Reserve Component (Nonresident/Resident) AR-0709-0020
Patient Administration Specialist Reserve Component (Nonresident/Resident) AR-0709-0021
Reserve Component Psychological Operations (Nonresident/Resident) AR-1512-0007
Reserve Components National Security

Seminar DD-1511-0006
Veterinary Specialist (Basic) Reserve Component (Nonresident/Resident) AR-0104-0006

Resource
Aviation Command and Resource Management AR-1408-0036

Resources
Personnel Resources Management AR-1406-0004

Respiratory
Respiratory Specialist AR-0704-0007

Retention
Recruitment and Retention Noncommissioned Officer (NCO) Advanced AR-1408-0048
Reserve Components Recruiting and Retention Training AR-1406-0030

Review
Internal Review AR-1401-0010
Management Review and Analysis AR-1408-0011
Techniques of Review and Analysis AR-1408-0011

Risk
Advanced Decision Risk Analysis AR-0326-0014
Decision Risk Analysis AR-0326-0012
Decision Risk Analysis for Logisticians AR-0326-0013

RO361
Advanced Identification Techniques Position Maintenance (RO361) AR-1715-0415

Rocket
Ballistic Missile Rocket Motor and Structures Repair (Sergeant) AR-1715-0088
Honest John Rocket Crewman Noncommissioned Officer (NCO) Basic AR-2201-0178

Romanian
Romanian DD-0602-0001
DD-0602-0002
DD-0602-0003
DD-0602-0004
DD-0602-0006

Rotary
Army (Aviator) Transport Pilot–Phases I, II and III (Rotary Wing) AR-1606-0095
General Officer Rotary Wing Flight Training AR-1606-0073
General Officer Rotary Wing Qualification AR-1606-0072
Initial Entry Rotary Wing Aviator AR-1606-0074
Officer/Warrant Officer Rotary Wing Aviator (ORWAC/WORWAC) AR-1606-0074
Officer/Warrant Officer Rotary Wing Qualification AR-1606-0070
Officer/Warrant Officer Rotary Wing Qualification (Active Army) AR-1606-0127
Officer/Warrant Officer Rotary Wing Qualification (Reserve Component/Allied) AR-1606-0070
Rotary Wing Instrument AR-1606-0123
Rotary Wing Instrument Flight Examiner AR-1606-0124
Rotary Wing Instrument Qualification AR-1606-0097
Rotary Wing Qualification (Army and Air Force) AR-1606-0127
Rotary-Wing Technical Inspector AR-1704-0082
AR-1717-0010
Warrant Officer Candidate Rotary Wing Aviator AR-1606-0075

Rotor
Aircraft Rotor and Propeller Repair AR-1704-0054
Aircraft Rotor and Propeller Repair Skill Development Base AR-1704-0023

Russian
Basic Russian—Refresher DD-0602-0011
Russian DD-0602-0001
DD-0602-0002
DD-0602-0003
DD-0602-0005
DD-0602-0006
DD-0602-0007
DD-0602-0009
Russian Refresher DD-0602-0008
Russian Stenotype DD-0602-0003
Scientific Russian DD-0602-0008
U.S. Army Institute for Advanced Russian and East European Studies AR-0602-0001

S360
S360 Assembler Language AR-1402-0040

Safeguard
Safeguard Ballistic Missile Defense Unit Commander AR-1715-0379
Safeguard Missile Maintenance Technician/Specialist AR-1715-0377
Safeguard Staff Officer AR-1715-0380

Safety
Army Safety Program Management AR-0802-0008
Army Safety Program Organization and Administration AR-0802-0008
Radiological Safety AR-0705-0003
Safety Engineering Intern Training Program AR-0802-0006

SAILS
SAILS Management). AR-1406-0098
SAILS Materiel Management). AR-1406-0097
SAILS Materiel Management COSCOM). AR-1405-0096
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Standard Army Intermediate Level Supply Subsystem (SAILS) Materiel Management AR-1406-0097
Standard Army Intermediate Level Supply Subsystem (SAILS) Materiel Management Corps Support Command (COSCOM) AR-1405-0096

SAM
Associate AAA and SAM Officer Advanced AR-1408-0030
Associate SAM Officer Advanced AR-1717-0035
Associate Surface-to-Air Missile (SAM) Battery Officer AR-1715-0288
Guided Missile Unit Commander (SAM) AR-1715-0385
SAM Acquisition Radar and Computer Systems Repair AR-1715-0209
SAM Electronic Materiel Maintenance, Nike AR-1715-0085
SAM Fire Control System Maintenance, Nike Ajax AR-1715-0216
SAM Internal Guidance System Repair AR-1715-0114
SAM Launcher Control System Repair AR-1715-0077
SAM Maintenance AR-1715-0315
SAM Mechanical Systems Repair AR-1704-0086
SAM Officer Basic AR-2201-0120
SAM Staff Officer (Hawk) AR-1715-0289
SAM Staff Officer Transition (Hercules) AR-1715-0305
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SATCOM
SATCOM Controller AR-1715-0344
Satellite Communications (SATCOM) Operator AR-1715-0438
Satellite Communications (SATCOM) Terminal AN/TSC-54 Repair AR-1715-0047

Satellite
Satellite Communications by Correspondence AR-1715-0482
Satellite Communications Controller AR-1715-0344
Satellite Communications Fundamentals AR-1715-0074
Satellite Communications Ground Station Equipment Repair by Correspondence AR-1715-0481
Satellite Communications Ground Station Equipment Repairman AR-1715-0037
Satellite Communications Officer

AR-1715-0148
Satellite Communications PRE NET Training
AR-1715-0074
Satellite Communications (SATCOM) Operator
AR-1715-0438
Satellite Communications (SATCOM) Terminal AN/TSC-54 Repair
AR-1715-0047
Satellite Communications Systems Fundamentals
AR-1715-0429
Satellite Communications Terminal AN/MSC-46 Repair
AR-1715-0435
Satellite Communications Terminal Repair
AR-1715-0037
Satellite Communications Terminals AN/FSC-78 and AN/FSC-79 Repair
AR-1715-0345
Satellite Communications Terminals AN/FSC-78(V) and AN/FSC-79 Operation and Maintenance Training
AR-1715-0345
Strategic Satellite/Microwave Systems Operator
AR-1715-0430
Strategic Satellite/Microwave Systems Operator by Correspondence
AR-1715-0454

SB-3082(V)1/GT
Manual Cordless Switchboard SB-3082(V)1/GT Repair
AR-1715-0029

Scientific Russian
Scientific Russian
DD-0602-0008

Scout
Marine Artillery Scout Observer
AR-2201-0145

SCR-584
Artillery Fire Control System Maintenance SCR-584 and Director M9 or M10
AR-1715-0142
M33, SCR-584 Fire Control System Maintenance
AR-1715-0213

Seaman
Seaman
AR-1708-0004
Seaman Course
AR-1708-0002

Secure
Secure Voice Access Console Repair
AR-1715-0195
Secure Voice Access System Repair
AR-1715-0195

Security
Army Security Agency Card and Tape Writer
AR-1402-0038
Army Security Agency Tactical Support Element
AR-2201-0199
Basic Industrial Security
AR-1606-0019
Communications Security Analysis
AR-1606-0079
Communications Security Analyst
AR-1606-0079
Communications Security Monitor
AR-1404-0005
Defense Security Assistance Management Core
DD-1408-0001
Defense Security Assistance Management Overseas
DD-0327-0001
Defense Special Security Communications System Operator
AR-1715-0267
Industrial Security Specialist
DD-1728-0001
Information Security Management
DD-1728-0002
National Security Management (Correspondence Course of the Industrial College of the Armed Forces)
DD-1511-0001
Physical Security
AR-1728-0043
Physical Security Supervision
AR-1728-0024
Reserve Components National Security Seminar
DD-1511-0006
Security Assistance Management
AR-1606-0024
Security Assistance Management Orientation Seminar
AR-1606-0021
Security in ADP Systems
AR-1402-0051
Security Management
AR-1728-0044
Signal Security Officer
AR-1606-0130
Signal Security (SIGSEC) Specialist
AR-1404-0005
Signal Security Specialist Basic Technical
AR-1717-0054
United States Army Security Agency (USASA) Officer Career (U)
AR-1728-0042

Seminole
U-8D (Seminole) Aviator Qualification
AR-1606-0104

Senior
AN/TSQ-73 System Operator/Repairman Senior-Level
AR-1715-0401
AN/TSQ-73 System Operator/Repairman Senior-Level (Transition)
AR-1715-0402
Infantry Senior Sergeant Noncommissioned Officer (NCO) Advanced
AR-2201-0034
National Senior Intelligence
DD-1606-0001
Senior Army Officer Flight Training
AR-1606-0113
Senior Commanders Orientation
AR-2201-0217
Senior Field Artillery Officer
AR-2201-0140
Senior Field General COMSEC Repair
AR-1715-0094
Senior Field Systems COMSEC Repair
AR-1715-0063
Senior Officers Preventive Logistics
AR-2201-0161
Senior Special Electrical/Electronic Device Repair
AR-1715-0010
USASA Senior Noncommissioned Officer
AR-2201-0037
Warrant Officer Senior
AR-1408-0072

Sensor
Aerial Sensor Specialist Entry Level
AR-1709-0010
Airborne Sensor Specialist
AR-2201-0116
Airborne Sensor Specialist Skill Development Base
AR-1715-0212
OV-1D (Mohawk) Airborne Sensor Specialist
AR-1704-0013
Unattended Ground Sensor Mechanic
AR-1715-0284
Unattended Ground Sensor Operation
AR-1715-0224
Unattended Ground Sensor Specialist
AR-1715-0393
Unattended Ground Sensor Specialist/Maintenance Specialist
AR-1715-0284

Serbo-Croatian
Serbo-Croatian
DD-0602-0001
DD-0602-0002
DD-0602-0003
DD-0602-0006

Sergeant
Ballistic Missile General Support Shop Set Repair (Sergeant)
AR-1715-0116
Ballistic Missile Inertial Guidance and Control Repair (Sergeant)
AR-1715-0312
Ballistic Missile Maintenance Technician (Sergeant)
AR-1715-0246
Ballistic Missile Rocket Motor and Structures Repair (Sergeant)
AR-1715-0088
Ballistic Missile Test Station Repair (Sergeant)
AR-1715-0100
Drill Sergeant School
AR-2201-0146
Personnel Senior Sergeant
AR-1406-0024
Procurement Sergeant
AR-1405-0032
Sergeant Electrical-Mechanical Repair
AR-1715-0088
Sergeant Firing Set Repair
AR-1715-0353
Sergeant Firing Set Repairman
AR-1715-0353
Sergeant Maintenance Chief Noncommissioned Officer (NCO) Advanced
AR-1717-0031
Sergeant Missile Battery
AR-1715-0102
Sergeant Missile Battery Officer
AR-1715-0102
Sergeant Missile Crewman Noncommissioned Officer (NCO) Basic
AR-2201-0093
Sergeant Missile Guidance Repair
AR-1715-0302
Sergeant Officer
AR-2201-0101
Sergeant Test Equipment Repair
AR-1715-0128

Sergeant Test Equipment Repairman AR-1715-0128
Surface-to-Surface Missile System Maintenance (Sergeant) Warrant Officer Advanced AR-1717-0034
Surface-to-Surface Missile System Maintenance (Sergeant) Warrant Officer Intermediate AR-1715-0246

Sergeants
United States Army Sergeants Major AR-1408-0003
United States Army Sergeants Major Academy Correspondence Program AR-1408-0064
United States Army Sergeants Major Academy Nonresident Program AR-1408-0064

Serology
Forensic Serology AR-1601-0053

Service
Ordnance Service Section Officer AR-1710-0050
Service and Renovation (SR-CMF) Noncommissioned (NCO) Basic AR-2201-0074
Service and Renovation (SR-CMF) Noncommissioned Officer (NCO) Advanced AR-2201-0073
Supply and Service Officer AR-1402-0025

Services
Special Services (SS-CMF) Noncommissioned Officer (NCO) Basic AR-0804-0001

Shawnee
CH-21 (Shawnee) Pilot Transition AR-1606-0041

Sheridan
Sheridan Turret Mechanic AR-1710-0032

Shillelagh
Shillelagh Missile System Repair AR-1715-0303

Shipboard
Shipboard Information, Training and Entertainment (SITE) System Operators (Television Afloat) DD-0504-0010

Shoe
Shoe Repair AR-1734-0001

Shop
Ordnance Shop Technician AR-1710-0048
Railway Shop Foreman AR-1710-0007

SHORAD
Short Range Air Defense (SHORAD) Systems Technician AR-1715-0081

Short
Defense Language Institute Short Basic Courses DD-0602-0004

SIDPERS
SIDPERS Management AR-1406-0022

SIGINT
Strategic SIGINT Officer AR-1606-0094

Signal
15D2 Radar Signal Simulator Maintenance AR-1715-0171
AN/MPQ-36 Radar Signal Simulator Maintenance AR-1715-0171
AN/MPQ-T1 Radar Signal Simulator Maintenance AR-1715-0165
Area Signal Center Officer AR-1408-0050
Associate Signal Officer Advanced AR-1408-0023
Associate Signal Officer Career AR-1408-0023
Electronic Warfare (EW) Signal Intelligence Interceptor, Morse AR-1409-0008
Electronic Warfare (EW) Signal Intelligence Noncommunications Interceptor-Analyst AR-1715-0018
Regular Army Signal Officer Basic AR-1715-0265
Signal Advanced Noncommissioned Officer (NCO) Education System, Phases I and IA by Correspondence AR-1715-0459
Signal Advanced Noncommissioned Officer (NCO) Education System, Phases I and IB by Correspondence AR-1715-0458
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Signal Company Officer AR-1715-0192
Signal Corps Officers Basic AR-1404-0006
Signal Equipment Maintenance and Repair Officer AR-1717-0011
Signal Field Grade Officer Refresher AR-1715-0261
Signal Material Maintenance Officer AR-1717-0011
Signal Officer Advanced AR-1715-0319
Signal Officer Advanced by Correspondence AR-1715-0145
Signal Officer Advanced (Core Phase) AR-1715-0319
Signal Officer Advanced (Nonresident/Resident) AR-1715-0296
Signal Officer Advanced (Reserve Component) AR-2201-0094
Signal Officer Basic AR-1404-0006
Signal Officer Basic by Correspondence AR-1715-0144
Signal Officer Basic (Reserve Component) AR-2201-0075
Signal Officer Candidate AR-2201-0160
Signal Officer Career AR-1715-0319
Signal Officer Familiarization AR-1715-0270
Signal Officer Orientation AR-1404-0006
Signal Parts Supply AR-1405-0012
Signal Security Officer AR-1606-0130
Signal Security (SIGSEC) Specialist AR-1404-0005
Signal Security Specialist Basic Technical AR-1717-0054
Signal Supply AR-1405-0011
Signal Supply Advanced AR-1405-0052
Signal Supply and Parts Specialist AR-1405-0011
Signal Supply Basic AR-1405-0020
Signal Supply Officer AR-1405-0020
Signal Supply Officer Advanced AR-1405-0052
Strategic Signal Intelligence Officer AR-1606-0094
Telemetry Signal Analysis AR-1715-0137
Warrant Officer Advanced (Signal) by Correspondence AR-2201-0005

SIGSEC
Signal Security (SIGSEC) Specialist AR-1404-0005
SIGSEC Officer AR-1606-0130

Simulator
15D2 Radar Signal Simulator Maintenance AR-1715-0171
15D2 Radar Target Simulator Maintenance AR-1715-0171
AN/MPQ-36 Radar Signal Simulator Maintenance AR-1715-0171
AN/TPQ-21 Hawk Guided Missile System Simulator Maintenance AR-1715-0276
Flight Simulator (2B24) Specialist AR-1606-0006
Flight Simulator Operations and Maintenance AR-1606-0069
Flight Simulator Specialist AR-1606-0069
Flight Simulator (UH1FS) Specialist AR-1606-0006
Improved Hawk Guided Missile Simulator Maintenance Maintenance AR-1715-0300
Improved Hawk Radar Signal Simulator Station Repair AR-1715-0397
Improved Hawk Radar Signal Simulator Station Repairer AR-1715-0397
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Single-Engine
Single-Engine Airplane Repair AR-1704-0025
Single-Engine Light Transport Airplane Maintenance AR-1704-0030
Single-Engine Observation and Utility Airplane Maintenance AR-1704-0029
Single-Engine, Single-Rotor Helicopter

Repair AR-1704-0040
Single-Engine Tandem-Rotor Helicopter Repair AR-1704-0058

Single-Rotor
Multi-Engine, Single-Rotor Helicopter Repair AR-1704-0035
Single-Engine, Single-Rotor Helicopter Repair AR-1704-0040
Single-Rotor Helicopter Maintenance AR-1704-0079
Single-Rotor Light Transport Helicopter Maintenance AR-1704-0050
Single-Rotor Observation Helicopter Maintenance AR-1704-0055
Single-Rotor Turbine Utility Helicopter Maintenance AR-1704-0048
Single-Rotor Turbine Utility Helicopter Repair AR-1704-0033
Single-Rotor Utility and Light Transport Helicopter Maintenance AR-1704-0050
Utility and Cargo Single-Rotor Helicopter Repair AR-1704-0053

SITE
Shipboard Information, Training and Entertainment (SITE) System Operators (Television Afloat) DD-0504-0010

Skysweeper
Skysweeper Gun Section Fire Control Maintenance AR-1715-0217
Skysweeper Maintenance AR-1601-0038

Slovenian
Slovenian DD-0602-0002

Small
Small Arms Repair AR-2201-0096

Smoke
Smoke and Flame Specialist NCO Basic AR-2201-0030
Smoke Generation Supervision AR-1601-0040

Social Work
Psychiatric Social Work Enlisted AR-1513-0002
Social Work Enlisted AR-1513-0002
Social Work Procedures AR-1513-0002
Social Work/Psychology Procedures AR-1512-0006

Software
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Soils
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Soils Analyst Noncommissioned Officer (NCO) Candidate AR-1601-0009
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Solid State
Tactical Solid State Telephone Equipment Repair AR-1715-0029

Sound
Artillery Sound Ranging AR-1715-0153
Artillery Sound Ranging (Advanced) AR-1715-0153
Defense Against Sound Equipment AR-1715-0206
Defense Against Sound Equipment (DASE), Phase I AR-1715-0420
Sound Projector Repair AR-1715-0279
Sound Ranging Crewman AR-1715-0153
Sound Ranging Crewman Noncommissioned Officer (NCO) Basic AR-1715-0386

Space
Space Collection (SPACOL) Operations AR-2201-0203

Spanish
Spanish DD-0602-0001
DD-0602-0002
DD-0602-0003
DD-0602-0004
DD-0602-0006
DD-0602-0009

Special
Counterinsurgency and Special Warfare Staff Officer AR-1511-0009
Defense Language Institute Special Courses DD-0602-0008
Guided Missile and Special Weapons Staff Officer AR-1405-0068
Noncommissioned Officer (NCO) Special Assignment Advanced AR-1408-0048
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Special Ammunition Officer AR-2201-0017
Special-Assignment (00-CMF) NCO Basic AR-1710-0024
Special Assignment (SP-CMF) Noncommissioned Officer (NCO) Advanced AR-2201-0054
Special Assignment (SP-CMP) Noncommissioned Officer(NCO) Advanced AR-1408-0048
Special Assignments (SP-CMF) Noncommissioned Officer (NCO) Basic AR-2201-0113
Special Purpose Equipment Repair Parts Specialist AR-1401-0013
Special Purpose Equipment Repair Parts Specialist, Skill Development Base AR-1402-0029
Special Purpose Receiving Systems Maintenance AR-1715-0407
Special Services Officer AR-0804-0002
Special Services (SS-CMF) Noncommissioned Officer (NCO) Advanced AR-1408-0004
Special Services (SS-CMF) Noncommissioned Officer (NCO) Basic AR-0804-0001

Special Forces
Intelligence Analyst (Special Forces) AR-1606-0027
Special Forces Aidman (Airborne) AR-0709-0006
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Special Forces Engineer Training AR-1601-0019
Special Forces Intelligence AR-1606-0027
Special Forces Jumpmaster AR-2201-0053
Special Forces Military Free Fall Jumpmaster AR-2201-0060
Special Forces Military Free Fall Parachutist AR-2201-0222
Special Forces Military Free Fall Parachutist/Military Free Fall Jumpmaster AR-2201-0060
Special Forces Officer AR-2201-0162
Special Forces Officer Intelligence AR-1606-0083
Special Forces Officer (Modified AR-2201-0162
Special Forces Operations and Intelligence AR-1606-0026
Special Forces Qualification AR-2201-0010
Special Forces Underwater Operations AR-0803-0001

Specification
Defense Specification Management AR-1408-0035
Specification Management AR-1408-0035

Spectrometric
Defense Spectrometric Oil Analysis Operator/Evaluator AR-1601-0002

Splicer
Cable Splicer Noncommissioned Officer (NCO) Basic AR-2201-0076

Splicing
Cable Splicing AR-1714-0016

SSM
Associate Surface-to-Surface Missile (SSM) Battery Officer AR-1714-0013
Guided Missile Electronic Materiel Maintenance, SSM AR-1715-0090
Guided Missile Fire Control System Maintenance, SSM AR-1715-0076
SSM Computer Repair AR-1715-0022

SSM Doppler Repair AR-1715-0187
SSM Internal Guidance System Repair AR-1715-0083
SSM Mechanical Materiel Maintenance AR-1715-0328
SSM Mechanical Repair AR-1714-0014
SSM Radar System Repair AR-1715-0190
Surface-to-Surface Missile (SSM) Maintenance AR-1715-0327
Surface-to-Surface Missile (SSM) Officer Basic AR-1715-0325

Staff
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Army Medical Department (AMEDD) Graduate Medical Education (GME) Program Command and Staff. AR-0799-0014
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Command and General Staff Officer AR-1511-0006
Command and General Staff Officer Regular AR-1511-0006
Command and Staff Officer Electronic Warfare AR-1715-0014
Regular Command and General Staff Officer AR-1511-0006

Standard
Standard Army Intermediate Level Supply Subsystem (SAILS) Management AR-1406-0098
Standard Army Intermediate Level Supply Subsystem (SAILS) Materiel Management AR-1406-0097
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Standards
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Engineered Performance Standards (EPS) for Facilities Engineering Estimators AR-0326-0026

Station
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Fixed Station Facilities Controller AR-1715-0135
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Fixed Station Radio Receiver Repair AR-1715-0055
Fixed Station Radio Repair AR-1715-0056
Fixed Station Radio Transmitter Repair AR-1715-0057
Fixed Station Receiver Repair AR-1715-0055
Fixed Station Technical Controller AR-1715-0135
Fixed Station Technical Controller by Correspondence AR-1715-0443
Fixed Station Terminal Repair AR-1715-0282
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Station Technical Controller AR-1715-0135

Statistical
Statistical Analysis and Designed Experiments AR-1115-0006
Statistical Inference AR-1115-0007
Statistical Quality Control AR-1115-0008
Statistical Quality Control II AR-1115-0004

Statistics
Management Statistics by Correspondence AR-1115-0003
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Steam
Steam Locomotive Repairman AR-1710-0008

Stenography
Stenography AR-1407-0001
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Sterile
Pharmacy Sterile Products AR-0709-0017

Stevedore
Basic Stevedore AR-0419-0001
Stevedore AR-0419-0001
Stevedore Officer AR-0419-0032
Stevedore Supervision AR-0419-0004
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Steward
Hospital Mess Steward AR-1729-0005

Stewards
Mess Stewards AR-1729-0001

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Still Photography AR-1709-0001

Stock
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Commodity Command Standard System (CCSS) Army Stock Fund AR-1405-0086
Commodity Command Standard System (CCSS) Stock Control AR-1405-0084
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Financial Management—Inventory Accounting and Army Stock Fund Operations AR-1405-0005
Installation Stock Control AR-1405-0073
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Stock Control and Accounting AR-1401-0016
Stock Control and Accounting Specialist AR-1401-0016
Stock Control and Accounting Specialist, Skill Development Base AR-1402-0013

Storage
Ammunition Storage AR-2201-0022
Ammunition Storage and Operation AR-2201-0022
Ammunition Storage and Operations AR-2201-0132
Equipment Storage Specialist AR-1405-0028
Equipment Storage Specialist, Skill Development Base AR-1408-0043
Petroleum Storage Specialist AR-1601-0043
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Subsistence Storage Specialist AR-1405-0044
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Store
Commissary Middle Management, Phase I (Commissary Store Management) AR-0406-0006
Commissary Store Management AR-0406-0006

Strategic
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Strategic Satellite/Microwave Systems Operator AR-1715-0430
Strategic Satellite/Microwave Systems Operator by Correspondence AR-1715-0454
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Stripping
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Structures
Ballistic Missile Rocket Motor and Structures Repair (Sergeant) AR-1715-0088
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Structures Repair AR-1704-0089

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Subscriber

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Digital Subscriber Terminal Equipment (DSTE) Repairer AR-1715-0253

Digital Subscriber Terminal Equipment Repair AR-1715-0253

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Subsistence Storage Specialist AR-1405-0044

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Subsistence Technology AR-0104-0008

Supervisor

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Supply

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Army Supply Officer AR-1405-0070

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Commodity Command Standard System (CCSS) Supply Management AR-1405-0083

DARCOM Supply Management Career Intern Training AR-1405-0015

Engineer Supply AR-1405-0059

Engineer Supply and Spare Parts Officer AR-1405-0056

General Supply Specialist AR-1405-0047

General Supply Supervision AR-1405-0029

Installation/Direct Support Supply Officer AR-1405-0007

Installation Supply Procedures AR-1405-0021

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Medical Supply Procedures AR-1405-0024

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Quartermaster Supply Procedures AR-1405-0002

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Signal Supply Advanced AR-1405-0052

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Signal Supply Basic AR-1405-0020

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Signal Supply Officer Advanced AR-1405-0052

Standard Army Intermediate Level Supply Subsystem (SAILS) Management AR-1406-0098

Standard Army Intermediate Level Supply Subsystem (SAILS) Materiel Management AR-1406-0097

Standard Army Intermediate Level Supply Subsystem (SAILS) Materiel Management Corps Support Command (COSCOM) AR-1405-0096

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Supply and Service Officer AR-1402-0025

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Supply Management Officer AR-1405-0070

Supply Specialist Refresher AR-1405-0064

Supply Staff Officer, G4/S4 AR-1405-0060

Supply (SU-CMF) Noncommissioned Officer (NCO) Advanced AR-0419-0010 AR-1405-0077

Supply (SU-CMF) Noncommissioned Officer (NCO) Basic AR-0419-0009 AR-1408-0044

Transportation Parts Supply AR-1405-0043

Transportation Supply AR-1405-0033

Transportation Supply and Parts Specialist AR-1405-0033

Transportation Supply Officer AR-1405-0045

Transportation Supply Specialist AR-1405-0033

Unit and Organization Supply Noncommissioned Officer (NCO) AR-1405-0029

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Land Combat Support System Test Specialist/Lance Repair Transition. AR-1402-0058

Tactical Fire Direction System (TACFIRE) Direct Support Maintenance AR-1715-0500

Weapons Support Radar AN/TPS-58 AR-1715-0490

Weapons Support Radar Maintenance and Repair AR-1715-0362

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Suppressive

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AAA and Surface-to-Air Missile Battery Officer AR-1601-0032

Associate Surface-to-Air Missile (SAM) Battery Officer AR-1715-0288

Surface-to-Air Missile Mechanical Materiel Maintenance (Nike Ajax) AR-1714-0002

Surface-to-Air Missile Staff Officer AR-1715-0315

Surface-to-Air Missile Staff Officer (Hawk) AR-1715-0289

Surface-to-Air Missile Staff Officer (Nike) AR-1715-0315

Surface-to-Air Missile System Maintenance (Hawk) Warrant Officer Advanced AR-1715-0290

Surface-to-Air Missile System Maintenance (Hawk) Warrant Officer Intermediate AR-1715-0099

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Maintenance (Nike) Warrant Officer Advanced AR-1717-0032
Surface-to-Air Missile System Maintenance (Nike) Warrant Officer Intermediate AR-1715-0255
Surface-to-Air Missile Systems Maintenance Warrant Officer Advanced AR-1715-0105
Surface-to-Air Missile Systems Maintenance Warrant Officer Intermediate (221B, 222B, 223C) AR-1715-0105
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Surface-to-Surface
Associate Surface-to-Surface Missile (SSM) Battery Officer AR-1714-0013
Field Artillery and Surface-to-Surface Missile Battery Officer AR-1715-0281
Surface-to-Surface Missile (SSM) Maintenance AR-1715-0327
Surface-to-Surface Missile (SSM) Officer Basic AR-1715-0325
Surface-to-Surface Missile System Maintenance (Pershing) Warrant Officer Advanced AR-2201-0126
Surface-to-Surface Missile System Maintenance (Pershing) Warrant Officer Intermediate AR-1715-0078
Surface-to-Surface Missile System Maintenance (Sergeant) Warrant Officer Advanced AR-1717-0034
Surface-to-Surface Missile System Maintenance (Sergeant) Warrant Officer Intermediate AR-1715-0246

Surfacing
Surfacing Machine Operation AR-1710-0002
Surfacing Machine Operator AR-1710-0002

Surgeon
Battalion Surgeon Assistant AR-0709-0011

Surgical
Nurse Practitioner Adult Medical-Surgical Health Care AR-0703-0013

Surveillance
Aerial Surveillance Officer AR-2201-0121
Airborne Surveillance Radar Repair AR-1715-0203
Artillery Surveillance Radar Maintenance AR-1715-0179
Combat Area Surveillance Radar Repair AR-1715-0229
Combat Area Surveillance Radar Repairman AR-1715-0147
Combat Area Surveillance Radar Repair, Skill Development Base AR-1717-0017
Combat Area Surveillance Radar Repair, Specialist Candidate AR-1717-0017
Combat Surveillance and Target Acquisition NCO Advanced AR-2201-0183
Combat Surveillance and Target Acquisition Noncommissioned Officer (NCO) Basic AR-2201-0186
Combat Surveillance and Target Acquisition (SA-CMF) NCO Advanced AR-2201-0183
Combat Surveillance and Target Acquisition (SA-CMF) NCO Basic AR-1717-0018 AR-2201-0002
Combat Surveillance Photographic Equipment Repair AR-1715-0346
Ground Surveillance Radar Crewman AR-1715-0178
Ground Surveillance Radar Mechanic (AN/TPS-33 and AN/PPS-4) AR-1715-0147
Ground Surveillance Radar Operation AR-1715-0178
Ground Surveillance Radar Operator AR-1715-0178
Ground Surveillance Radar Repair AR-1715-0147 AR-1715-0229
Intelligence Officer Basic Tactical Surveillance AR-1606-0142
Intelligence Officer Tactical Surveillance AR-1606-0142
Mechanized Flame Thrower Surveillance AR-1601-0041
OV-1D (Mohawk) Aviator Combat Surveillance Qualification AR-1715-0133
OV-1D (Mohawk) Surveillance Infrared Repair AR-1715-0054
OV-1 (Mohawk) Aviator Combat Surveillance Qualification AR-1606-0092
Surveillance Infrared Repair AR-1715-0227
Surveillance Photographic Equipment Repair AR-1715-0346
Surveillance Radar Maintenance AR-1715-0179

Survey
Artillery Survey Advanced AR-1601-0034
Artillery Survey Noncommissioned Officer (NCO) AR-1601-0016
Artillery Survey Officer AR-1601-0033
Artillery Survey Specialist AR-1601-0034
Field Artillery Target Acquisition and Field Artillery Survey AR-1601-0054
Optical Survey Instrument Repair DD-1721-0001

Surveying
Advanced Geodetic Surveying DD-1601-0003
Construction Surveying AR-1601-0024 DD-1601-0008
Geodetic Surveying DD-1601-0002
Topographic Surveying AR-1601-0022

Surveyor
Advanced Geodetic Surveyor AR-1601-0006
Artillery Surveyor Noncommissioned Officer (NCO) Basic AR-1601-0045
Construction Surveyor Noncommissioned Officer (NCO) Candidate AR-1601-0010
Construction Surveyor Noncommissioned Officer (NCO)/Supervisor Candidate AR-1601-0010
Construction Surveyor Skill Development Base AR-1601-0010

Swahili
Swahili DD-0602-0002

Swedish
Swedish DD-0602-0001 DD-0602-0002

Switch
Tandem Switch Repair AR-1715-0188

Switchboard
Central Office Switchboard Operator AR-1404-0004
Central Office Telephone Switchboard Operation AR-1404-0004
Manual Cordless Switchboard SB-3082(V)1/GT Repair AR-1715-0029
Switchboard Operator AR-1404-0004
Telephone Switchboard Operation AR-1404-0004

Switching
AUTODIN Switching Center Specialist AR-1402-0011
AUTODIN Switching Center Traffic Operations AR-1404-0007
Automatic Digital Message Switching Center (ADMSC) Technical Controller AR-1715-0221
Automatic Digital Message Switching Center Operation Supervisory AR-1402-0020
Data Communications Switching Center Specialist AR-1404-0007
Electronic Switching Systems Repair AR-1715-0149
Electronic Switching Systems Repair by Correspondence AR-1715-0469
Overseas Automatic Switching Center (ASC) Technical Controller AR-1715-0221

Systems
Administrative Systems Analysis and Design AR-0326-0024
ADP Systems Analysis and Design AR-1402-0041
Advanced ADP Systems Analysis AR-1402-0001
Assistant Systems Analyst AR-1402-0001
Automatic Data Processing Systems

Analysis
AR-1402-0003
Automatic Data Processing Systems Analysis Officer
AR-1402-0003
Basic Automatic Data Processing Systems Analysis
AR-1402-0005
Business Systems Analysis
AR-1402-0048
Computer Systems Operator
AR-1402-0002
Cost Estimating Techniques for Systems Acquisition
AR-1408-0025
General Functional Systems Requirement (GFSR) In Systems Development
AR-1408-0057
Guided Missile Systems Officer
AR-1715-0286
Information Systems Officer (ISO)
AR-1402-0005
Operating Systems
AR-1402-0045
Short Range Air Defense (SHORAD) Systems Technician
AR-1715-0081
Systems Analysis
AR-1402-0001
Systems Engineering
AR-0326-0033
Systems Engineering, Analysis and Management (Guided Missile)
AR-1715-0286

T-38
Artillery Fire Control System Maintenance, T-38
AR-1715-0215
Gun Section Fire Control Maintenance, T38
AR-1715-0217
T38 Gun Section Fire Control Maintenance
AR-1715-0217

T-42
T-42 Instructor Pilot
AR-1606-0135

Tabular
Tabular Equipment Repair by Correspondence
AR-1706-0005

Tabulating
Tabulating Equipment Repair
AR-1706-0004

Tactical
Army Aviation Primary and Tactical Flight Training
AR-1606-0120
Army Helicopter Transport Tactical
AR-1606-0106
Army Security Agency Tactical Support Element
AR-2201-0199
Electronic Warfare (EW) Cryptologic Tactical Operations Officer
AR-1606-0086
Intelligence Officer Basic Tactical
AR-1606-0137
Intelligence Officer Basic Tactical Surveillance
AR-1606-0142
Intelligence Officer Tactical Surveillance
AR-1606-0142
Tactical Circuit Controller
AR-1714-0001
Tactical Circuit Controller by Correspondence
AR-1714-0020
Tactical Communications Chief
AR-1715-0492
Tactical Communications Chief by Correspondence
AR-1404-0021
Tactical Communications Chief Noncommissioned Officer (NCO) Basic
AR-1715-0012
Tactical Communications Chief Noncommissioned Officers (NCO) Advanced
AR-1715-0489
Tactical Communications Chief, Skill Development Base
AR-2201-0078
Tactical Communications Systems Operator/Mechanic
AR-1715-0091
Tactical Countermeasures Receiving Systems Maintenance (AN/MLQ-24)
AR-1715-0416
Tactical Electronic Equipment Maintenance (EE-CMF) Noncommissioned Officer (NCO) Advanced
AR-1715-0016
AR-2201-0190
Tactical Electronic Equipment Maintenance (EE-CMF) Noncommissioned Officer (NCO) Basic
AR-1715-0012
AR-1715-0017
AR-1715-0019
AR-1715-0020
Tactical Electronic Equipment Maintenance Noncommissioned Officers (NCO) Advanced (USAFAS)
AR-1715-0489
Tactical Electronic Maintenance Chief
AR-1715-0008
Tactical Electronic Maintenance (EE-CMF) Noncommissioned Officer (NCO) Advanced
AR-1715-0016
Tactical Fire Direction System (TACFIRE) Direct Support Maintenance
AR-1715-0500
Tactical Intelligence Officer
AR-1606-0137
Tactical Microwave Systems Operation and Maintenance
AR-1715-0219
Tactical Microwave Systems Operrator by Correspondence
AR-1715-0452
Tactical Microwave Systems Repair
AR-1715-0272
AR-1715-0436
Tactical Microwave Systems Repair by Correspondence
AR-1715-0456
Tactical Satellile Microwave System Operator
AR-1715-0219
Tactical Solid State Telephone Equipment Repair
AR-1715-0029
Tactical Training
AR-2201-0066
Tactical Wire Operations Specialist
AR-1715-0434
Tactical Wire Operations Specialist by Correspondence
AR-1404-0022

Tactics
Army Aviation Tactics
AR-1606-0107
Army Aviation Tactics Refresher
AR-1606-0099
Tactics and Techniques, Phase I
AR-2201-0020

Tandem
Tandem Switch Repair
AR-1715-0188

Tandem-Rotor
Multi-Engine, Tandem-Rotor Helicopter Repair
AR-1704-0034
Single-Engine Tandem-Rotor Helicopter Repair
AR-1704-0058
Tandem-Rotor Helicopter Maintenance
AR-1704-0052
Tandem-Rotor Helicopter Repair
AR-1704-0058
Tandem-Rotor Light Transport Helicopter Maintenance
AR-1704-0069
Utility and Cargo, Tandem-Rotor Helicopter Maintenance
AR-1704-0052

Tank
Armor Officer Basic Tank/Armor Officer Basic Cavalry
AR-1717-0039
M90A1 (ITV) Missile Tank Turret/Tank Turret Mechanic
AR-1710-0059
Missile Tank Turret Mechanic
AR-1710-0038
Ordnance Officer Advanced Tank Ground Mobility.
AR-1408-0078
Ordnance Officer Basic Tank and Ground Mobility Materiel Management
AR-1405-0093
Tank Driver Basic Armor Training (BAT)
AR-1710-0055
Tank Turret Mechanic
AR-1710-0020
Tank Turret Repair
AR-1710-0018
AR-1710-0052

Tape
Army Security Agency Card and Tape Writer
AR-1402-0038
Automatic Tape Processing Equipment
AR-1715-0042

Target
Artillery Target Acquisition Officer
AR-1601-0027
Combat Surveillance and Target Acquisition NCO Advanced
AR-2201-0183
Combat Surveillance and Target Acquisition Noncommissioned Officer (NCO) Basic
AR-2201-0186
Combat Surveillance and Target Acquisition (SA-CMF) NCO Advanced
AR-2201-0183
Combat Surveillance and Target Acquisition (SA-CMF) NCO Basic
AR-1717-0018
AR-2201-0002
Field Artillery Target Acquisition and

Field Artillery Survey
AR-1601-0054
Field Artillery Target Acquisition Officer
AR-1601-0027
Field Artillery Target Acquistion Specialist
AR-1715-0153
Light Target Missile Controller
AR-2201-0087
Light Target Missile Flight Control System Maintenance
AR-1715-0131
Nuclear and Chemical Target Analysis
AR-2201-0150
AR-2201-0187
Nuclear and Chemical Target Analysis (N&C)
AR-2201-0151
Nuclear, Biological and Chemical (NBC) Weapons Target Analysis
AR-2201-0154
AR-2201-0187

Technical
Airplane Technical Inspector
AR-1717-0004
Fixed Station Technical Controller
AR-1715-0135
Fixed Wing Technical Inspector
AR-1717-0004
Helicopter Technical Inspector
AR-1717-0010
Rotary-Wing Technical Inspector
AR-1704-0082
AR-1717-0010
Station Technical Controller
AR-1715-0135
Technical Data Package Development/Preparation
AR-0326-0034
Technical Escort
AR-0802-0001
Technical Evaluation Program (TEP) Training
AR-1715-0271
Technical Intelligence
AR-1606-0005

Telecommunication
Telecommunication Automation Software Technician
AR-1402-0006

Telecommunications
Fixed Telecommunications Systems Advanced
AR-1404-0019
Fixed Telecommunications System Track 26 by Correspondence
AR-1715-0441
Telecommunications Center Operator
AR-1404-0015
Telecommunications Center Operator by Correspondence
AR-1404-0020
Telecommunications Center Specialist
AR-1404-0015
Telecommunications Technician by Correspondence
AR-1404-0024

Telemetry
Telemetry Collection Operations
AR-2201-0203
Telemetry Identification and Collection
AR-1715-0137
Telemetry Signal Analysis
AR-1715-0137

Telephone
Central Office Telephone Switchboard Operation
AR-1404-0004
Tactical Solid State Telephone Equipment Repair
AR-1715-0029
Telephone and Teletypewriter Equipment Repair
AR-1715-0257
Telephone and Teletypewriter Officer
AR-1715-0266
Telephone-Digital Communications Officer
AR-1715-0268
Telephone-Digital Communications Officer by Correspondence
AR-1715-0462
Telephone Installation and Repair
AR-1715-0332
Telephone Installer and Lineman
AR-1714-0015
Telephone Switchboard Operation
AR-1404-0004

Teletype
Radio Teletype Operation
AR-1404-0009
Radio Teletype Operator
AR-1404-0009
Radio Teletype Operator Noncommissioned Officer (NCO) Basic
AR-1408-0024
Radio Teletype Operator Skill Development Base
AR-1715-0247
Teletype Interception
AR-1715-0248
Teletype Operation
AR-1409-0006

Teletypewriter
Amplitude Modulated Radio Teletypewriter Equipment Operation
AR-1404-0003
Radio Teletypewriter Analysis
AR-1606-0016
Radio Teletypewriter Operator
AR-1404-0009
Radio Teletypewriter Operator by Correspondence
AR-1404-0025
Radio Teletypewriter Operator (Non Morse)
AR-1409-0005
Specialized Teletypewriter Equipment Repair
AR-1715-0245
Telephone and Teletypewriter Equipment Repair
AR-1715-0257
Telephone and Teletypewriter Officer
AR-1715-0266
Teletypewriter Equipment Maintenance
AR-1715-0260
Teletypewriter Equipment Repair
AR-1715-0260
Teletypewriter Equipment Repair by Correspondence
AR-1715-0451
Teletypewriter Repairer
AR-1715-0260
Teletypewriter Repairman
AR-1715-0260
Teletypewriter Set AN/FGC-140 Maintenance
AR-1715-0202

Television
Pictorial Unit Commander and Motion Picture and Television Director
AR-1709-0006
Radio and Television Production Specialist
DD-0505-0001
Shipboard Information, Training and Entertainment (SITE) System Operators (Television Afloat)
DD-0504-0010
Television Equipment Repair
AR-1715-0278
Television Equipment Repair by Correspondence
AR-1715-0461
Television Equipment Repair Transition
AR-1715-0066

TEP
Technical Evaluation Program (TEP) Training
AR-1715-0271

Terminal
AN/MSQ-18 Battery Terminal Equipment Maintenance
AR-1715-0058
Data Communications Terminal Specialist
AR-1715-0043
Digital Subscriber Terminal Equipment (DSTE) Operator
AR-1715-0043
Digital Subscriber Terminal Equipment (DSTE) Repair by Correspondence
AR-1715-0479
Fixed Station Terminal Repair
AR-1715-0282
Missile Master Battery Terminal Equipment Maintenance
AR-1715-0087
Missile Monitor Operations Central and Terminal Equipment Repair
AR-1714-0003
Navy Broadcast Terminal Operator
AR-1715-0342
Radio Terminal Set AN/TRC-90 (RF Portion)
AR-1715-0072
Radio Terminal Sets AN/TRC-90/129/132 Repair
AR-1715-0072
Satellite Communications (SATCOM) Terminal AN/TSC-54 Repair
AR-1715-0047
Satellite Communications Terminal AN/MSC-46 Repair
AR-1715-0435
Terminal Data Link Fire Unit Integration Facilities (FUIF) Repair
AR-1715-0041
Terminal Intercept Equipment Repair
AR-1715-0138
Terminal Operations Specialist
AR-0419-0001

Terminals
Satellite Communications Terminals AN/FSC-78 and AN/FSC-79 Repair
AR-1715-0345
Satellite Communications Terminals AN/FSC-78(V) and AN/FSC-79 Operation and Maintenance Training
AR-1715-0345

Terrain
Terrain Analysis
DD-1601-0004

Terrain Analyst Noncommissioned Officer (NCO) Candidate AR-1601-0012
Terrain Analyst Skill Development Base AR-1601-0012

Test
Aircraft Turbine Engine Test Cell Operator AR-1704-0024
Ballistic Missile Test Instrument Repair AR-1715-0346
Ballistic Missile Test Instrument Repair (Redstone) AR-1715-0348
Ballistic Missile Test Station Repair (Pershing) AR-1715-0089
Ballistic Missile Test Station Repair (Sergeant) AR-1715-0100
Land Combat Support System Test Specialist/Lance Repair Transition. AR-1402-0058
Modular Engine Test Stand (METS) Operator AR-1704-0024

Test Equipment
Nike Test Equipment Repair AR-1715-0239
Sergeant Test Equipment Repair AR-1715-0128
Sergeant Test Equipment Repairman AR-1715-0128

Textile
Textile Repair AR-1716-0001
Textile Repair, Skill Development Base AR-1716-0002

Thai
Thai DD-0602-0002
DD-0602-0003
DD-0602-0004

Theater
Theater of Operations Movements Officer AR-0419-0008

Therapy
Dental Therapy Assistant AR-0701-0008
Occupational Therapy Procedures AR-0704-0002
Occupational Therapy Specialist AR-0704-0004
Physical Therapy Aide AR-0704-0001
Physical Therapy Enlisted AR-0704-0001
Physical Therapy Procedures AR-0704-0001
Physical Therapy Specialist AR-0704-0001

Time
'Defense Work Measurement Standard Time Data (DWMSTD) AR-0326-0032
Methods-Time Measurement 1 (MTM1) AR-1408-0073

Tire
Tire Repair AR-1703-0003

TOE/TDA
Management Practices in TOE/TDA Unit Instructor Training AR-1408-0069

Tool
Firearms and Tool Marks Examiner AR-1728-0015

Topographic
Basic Topographic Officers DD-1601-0012
Topographic Computing AR-1601-0023
Topographic Engineer Officer AR-1601-0007
Topographic Instrument Repair AR-1721-0005
Topographic Surveying AR-1601-0022

Topography
Topography and Printing Staff Noncommissioned Officer (NCO) DD-1601-0010
Topography and Printing (TP-CMF) Noncommissioned Officer(NCO) Basic AR-1601-0021
Topography and Printing (TP-CMP) Noncommissioned Officer (NCO) Advanced AR-1601-0020

TOW
AH-1S (TOW) Cobra Aviator Qualification AR-1606-0071
Tow Trainer AR-2201-0147

Towed
Light and Medium Towed Field Artillery Mechanic AR-2201-0106

Tower
Air Traffic Control Tower Operator AR-1704-0001

Trace
Forensic Chemistry—Trace Evidence AR-1601-0047

Track
Armor Track Vehicle Mechanic AR-1703-0001
Artillery Track Vehicle Maintenance AR-1703-0002
Nike Track Radar Repair (Hercules Transition) AR-1715-0126
Nike Track Radar Repair (Improved Hercules Transition) AR-1715-0126
Track Vehicle Mechanic AR-1703-0001

Tracker
Tracker Dog/Handler AR-1728-0022
Visual Tracker Course AR-2201-0028

Tracking
Radar Tracking Station Equipment Repair AR-1715-0173
Radar Tracking Station Repair AR-1715-0173

Traffic
ADMS Traffic Service Supervisory AR-1402-0011
Advanced Traffic Management AR-0419-0035
Air Traffic Control Communications Set AN/FSQ-75 Repair AR-1715-0032
AUTODIN Switching Center Traffic Operations AR-1404-0007
Defense Advanced Traffic Management AR-0419-0035
Electronic Warfare (EW) Cryptologic Traffic Analyst Basic Technical AR-1717-0056
Ground Air Traffic Control/NAVAIDS Equipment Repair AR-1715-0381
Installation Traffic Management AR-0419-0036
Radio Traffic Analyst AR-1606-0012
Traffic Analysis AR-1606-0012

Trainman
Railway Trainman AR-0419-0029
Trainman AR-0419-0029

Transmitter
Fixed Station Radio Transmitter Repair AR-1715-0057
Fixed Station Transmitter Repair AR-1715-0057

Transmitting
DECCA Transmitting Equipment Repair AR-1715-0185

Transport
Armor Maintenance and Motor Transport AR-1717-0033
Army (Aviator) Transport Pilot–Phases I, II and III (Rotary Wing) AR-1606-0095
Army Helicopter Transport Tactical AR-1606-0106
Army Helicopter Transport Tactical (H-19) AR-1606-0119
Army Helicopter Transport Tactical (H-21) AR-1606-0119
Army Helicopter Transport Tactical (H-21)(H-34) AR-1606-0119
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Army Transport Helicopter Pilot-Phase III AR-1606-0102
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Highway Transport Operations AR-0419-0006
Medium Transport Helicopter Repair AR-1704-0035
Motor Transport (MT-CMF) Noncommissioned Officer (NCO) Advanced AR-0419-0024
Motor Transport (MT-CMF) Noncommissioned Officer (NCO) Basic AR-0419-0013
Motor Transport Operation and Maintenance AR-0419-0006
Multi-Engine Medium Transport Airplane Maintenance AR-1704-0074
Multi-Engine Medium Transport

Helicopter Maintenance AR-1704-0049

Observation, Utility and Transport Helicopter Repair AR-1704-0040

Single-Engine Light Transport Airplane Maintenance AR-1704-0030

Single-Rotor Light Transport Helicopter Maintenance AR-1704-0050

Single-Rotor Utility and Light Transport Helicopter Maintenance AR-1704-0050

Tandem-Rotor Light Transport Helicopter Maintenance AR-1704-0069

Transportability

Air Transportability AR-0419-0021

Air Transportability Planning AR-0419-0031

Transportation

Associate Transportation Officer Advanced AR-0419-0022

Associate Transportation Officer Career AR-0419-0018

Highway Transportation Operation and Maintenance AR-0419-0006

Infantry Motor Transportation AR-1703-0015

Installation Transportation AR-0419-0036

Transportation Company Officer AR-0419-0038

Transportation Movement Control AR-0419-0005

Transportation Movements AR-0419-0005

Transportation Movements Control Supervision AR-0419-0002

Transportation Movement Specialist AR-0419-0005

Transportation Officer Advanced AR-0419-0019

Transportation Officer Basic AR-0419-0033

Transportation Officer Candidate AR-0419-0025

Transportation Officer Career AR-0419-0019

Transportation Officer Familiarization AR-0419-0020

Transportation Officer Orientation AR-0419-0023
AR-0419-0033

Transportation Parts Specialist AR-1405-0043

Transportation Parts Supply AR-1405-0043

Transportation Supply AR-1405-0033

Transportation Supply and Parts Specialist AR-1405-0033

Transportation Supply Officer AR-1405-0045

Transportation Supply Specialist AR-1405-0033

Tropospheric

Tropospheric Scatter Communication Equipment Repair AR-1715-0028

Tropospheric Scatter Terminal REL-2600 Repair AR-1715-0030

Truckmaster

Amphibious Truckmaster AR-1710-0011

Truckmaster AR-0419-0015

TSEC/CY-104

Multichannel Ciphony System TSEC/CY-104 Repair AR-1715-0388

Tunnel

Mine and Tunnel Detection Dog Handler AR-1728-0019

Turbine

Aircraft Turbine Engine Repair AR-1704-0068

Aircraft Turbine Engine Repair, Development Base AR-1704-0072

Aircraft Turbine Engine Repair Specialist Candidate AR-1704-0072

Aircraft Turbine Engine Test Cell Operator AR-1704-0024

Aircraft Turbine Multi-Engine Repair AR-1704-0090

Gas Turbine Generator Repair AR-1712-0013

Single-Rotor Turbine Utility Helicopter Maintenance AR-1704-0048

Single-Rotor Turbine Utility Helicopter Repair AR-1704-0033

Turkish

Turkish DD-0602-0001
DD-0602-0002
DD-0602-0003
DD-0602-0004
DD-0602-0009

Turret

Armor Turret Maintenance AR-1710-0003

M90A1 (ITV) Missile Tank Turret/Tank Turret Mechanic AR-1710-0059

Missile Tank Turret Mechanic AR-1710-0038

Sheridan Turret Mechanic AR-1710-0032

Tank Turret Mechanic AR-1710-0020

Tank Turret Repair AR-1710-0018
AR-1710-0052

Turret Artillery Repair AR-1710-0018

Turret Maintenance AR-1710-0003

Twin-Engine

Twin-Engine Helicopter Repair AR-1704-0057

Typing

Clerical Procedures and Typing—WAC AR-1409-0001

Typing and Clerical Procedures—WAC AR-1409-0001

U-1005

Automatic Data Processing (ADP) Repair, Phase II-Card Processors U-1005 and U-1004/DLT-6 Repair AR-1715-0044

Card Processors U-1005 and U-1004/DLT-6 Repair AR-1715-0044

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U-1A Airplane Repair AR-1704-0030

U-1A Airplane Repair Skill Development Base AR-1704-0041

U1-A Transition Flight Training AR-1606-0109

U-21

U-21 Aviator Qualification AR-1606-0091

U-21 Instructor Pilot AR-1606-0061

U-21 Standardization Instructor Pilot Qualification AR-1606-0061

U-8

U-8 Instructor Pilot AR-1606-0089

U-8 Instructor Pilot Qualification AR-1606-0089

U-8/U-21 Airplane Repair AR-1704-0067

U-8/U-21 Airplane Repair Skill Development Base AR-1704-0022

U-8D

U-8D Aviator Qualification AR-1606-0104

U-8D (Seminole) Aviator Qualification AR-1606-0104

UAS-4

Airborne Infrared Repair (UAS-4) AR-1715-0227

UH-1

UH-1 Aviator Qualification AR-1606-0049

UH-1 Aviator Qualification (Navy) AR-1606-0060

UH-1 Helicopter Repair AR-1704-0033

UH-1 Helicopter Repair Skill Development Base AR-1704-0064

UH-1 Helicopter Repair Specialist Candidate AR-1704-0064

UH-1 Instructor Pilot AR-1606-0053

UH-1 (Iroquois)Instructor Pilot (Transition/Gunnery) Qualification AR-1606-0053

UH-1 Pilot Transition AR-1606-0049

UH-1 Pilot Transition (Navy) AR-1606-0060

UH1FS

Flight Simulator (UH1FS) Specialist AR-1606-0006

UH-60

UH-60 Aviator Qualification AR-1606-0133

UH-60 (Blackhawk) Aviator Qualification AR-1606-0133

UHF

UHF/VHF Intercept Operations AR-1404-0018

Ukrainian
Ukrainian
DD-0602-0002

Unattended
Unattended Ground Sensor Mechanic
AR-1715-0284
Unattended Ground Sensor Operation
AR-1715-0224
Unattended Ground Sensor Specialist
AR-1715-0393
Unattended Ground Sensor Specialist/ Maintenance Specialist
AR-1715-0284

Underwater
Special Forces Underwater Operations
AR-0803-0001
Underwater Operations
AR-1606-0037

Unit
Management Practices in TOE/TDA Unit Instructor Training
AR-1408-0069
Psychological Operations Unit Officer
AR-1512-0001
Psychological Operations Unit Officer (Modified)
AR-1512-0001
Unit and Organization Supply Specialist and Armorer
AR-1405-0061
Unit Mess Officer
AR-1729-0013
Unit Supply
AR-1405-0047
Unit Supply Specialist
AR-1405-0061
Utility Element Maintenance—Medical Unit Self-Contained Transportable (MUST)
AR-1730-0003
WAC Unit Commander
AR-2201-0079

Universal
Nike-Universal Electronic Maintenance
AR-1715-0084
Nike-Universal Electronic Materiel Maintenance
AR-1715-0084
Nike Universal Fire Control System Maintenance
AR-1715-0361
Nike Universal Officer
AR-1715-0308
Nike Universal Officer Qualification
AR-1715-0308

UPS
Overseas ASC UPS Bypass Repair
AR-1715-0343

USARADCOM
USARADCOM CBR NCO
AR-2201-0067
USARADCOM CBR Officer Course
AR-2201-0051
USARADCOM Chemical, Biological, and Radiological Noncommissioned Officer (NCO)
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CG—Coast Guard
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MC—Marine Corps
NV—Navy

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10-A-4960 .... AR-1405-0040
10-A-7381 .... AR-1601-0031
10-A-C1 .... AR-1405-0069
10-A-C2 .... AR-1405-0041
10-A-C20 .... AR-1405-0069
10-A-C21 .... AR-1405-0072
10-A-C22 .... AR-1408-0032
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10-E-18 .... AR-1729-0009
10-E-20 .... AR-1729-0012
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10-E-31 .... AR-1710-0015
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10-E-33 .... AR-1405-0049
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10-E-35 .... AR-1405-0038
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10-E-4110 .... AR-1729-0012
10-E-43 .... AR-1405-0025
10-E-5 .... AR-1734-0001
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10-G-4130 .... AR-0104-0008
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10-G-F1 .... AR-1405-0073
10-G-F10 .... AR-1405-0002
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10-H-461A AR-1733-0001
10-H-464.1 .... AR-1733-0001
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10-I-F1 .... AR-1405-0073
10-I-F19 .... AR-1405-0007
10-I-F5 .... AR-1408-0062

10-K-F9 .... AR-1405-0014

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10-O-12 .... AR-1405-0040
10-O-13 .... AR-1408-0062
10-O-14 .... AR-1405-0053
10-O-15 .... AR-0406-0003
10-O-19 .... AR-1716-0006
10-O-2 .... AR-1408-0033
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10-O-4 .... AR-1405-0009
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10-O-A AR-1405-0069
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10-R-461.1 .... AR-1716-0001
10-R-462.1 .... AR-1716-0003
10-R-462.2 .... AR-1734-0001
10-R-463.1 .... AR-1710-0019
10-R-463.2 .... AR-1706-0003
10-R-465.1 .... AR-1706-0003
10-R-466.1 .... AR-1702-0002
10-R-467.1 .... AR-1710-0022
10-R-533.1 .... AR-1405-0044
10-R-546.1 .... AR-1716-0005
10-R-547.1 .... AR-0709-0012
10-R-550.0 .... AR-1405-0038
10-R-551.1 .... AR-1405-0025
10-R-552.1 .... AR-1601-0043
10-R-553.6 .... AR-1405-0062
10-R-764.1 .... AR-1405-0027
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10-R-768.1 .... AR-1405-0047
10-R-768.2 .... AR-1405-0047
10-R-768.6 .... AR-1405-0029
10-R-774.1 .... AR-1405-0050
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10-R-942.1 .... AR-1729-0002
10-R-943.1 .... AR-1729-0010
10-R-F16 .... AR-1704-0092
10-R-F22 .... AR-1729-0001
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10-R-F25 .... AR-1405-0029

10-S-F27 .... AR-1405-0021

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11-A-0500 .... AR-1715-0186
11-A-0501 .... AR-1715-0262
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11-A-2402 .... AR-1402-0035
11-A-4400 .... AR-1405-0020
11-A-8500 .... AR-1709-0006
11-A-C2 .... AR-1715-0192
11-A-C20 .... AR-1404-0006
11-A-C21 .... AR-1715-0270
11-A-C22 .... AR-1715-0319
11-A-C23 .... AR-1408-0023
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11-A-C7 .... AR-1404-0014
11-A-C8 .... AR-1715-0261
11-A-F1 .... AR-1405-0052
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11-B-0221 .... AR-1404-0013
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11-B-4400 .... AR-1405-0020
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11-E-1 .... AR-1714-0016
11-E-10 .... AR-1715-0387
11-E-11 .... AR-1715-0260
11-E-12 .... AR-1715-0360
11-E-15 .... AR-1404-0010
11-E-17 .... AR-1715-0318
11-E-18 .... AR-1404-0002
11-E-19 .... AR-1408-0017
11-E-2 .... AR-1721-0006
11-E-20 .... AR-1709-0002
11-E-21 .... AR-1715-0167
11-E-24 .... AR-1715-0272
11-E-25 .... AR-1409-0006
11-E-26 .... AR-1714-0015
11-E-27 .... AR-1715-0331
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11-E-29 .... AR-1405-0011
11-E-3 .... AR-1709-0004
11-E-30 .... AR-1715-0257
11-E-32 .... AR-1404-0004
11-E-34 .... AR-1715-0033
11-E-35 .... AR-1715-0278
11-E-36 .... AR-1304-0001
11-E-4 .... AR-1715-0351
11-E-41 .... AR-1405-0012
11-E-42 .... AR-1715-0057
11-E-43 .... AR-1715-0282
11-E-44 .... AR-1715-0055
11-E-45 .... AR-1715-0110
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11-E-5 .... AR-1715-0332
11-E-53 .... AR-1715-0152
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11-G-F1 .... AR-1402-0031
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11-N-282.3 .... AR-1715-0172
11-N-298.1 .... AR-1715-0154
11-N-298.2 .... AR-1714-0003
11-N-361.1 .... AR-1715-0041
11-N-361.2 .... AR-1715-0228
11-N-362.2 .... AR-1715-0173
11-N-363.1 .... AR-1715-0359
11-N-364.1 .... AR-1715-0035
11-N-364.2 .... AR-1715-0242
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11-O-22 .... AR-1404-0013
11-O-23 .... AR-1405-0052
11-O-24 .... AR-1717-0011
11-O-26 .... AR-1715-0262
11-O-3 .... AR-1715-0319
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11-R-053.1 .... AR-1404-0009
11-R-270.0 .... AR-1715-0110
11-R-271.1 .... AR-1715-0055
11-R-272.1 .... AR-1715-0057
11-R-273.1 .... AR-1715-0135
11-R-274.0 .... AR-1715-0031
11-R-274.1 .... AR-1715-0125
11-R-281.0 .... AR-1715-0219
11-R-281.1 .... AR-1715-0272
11-R-282.0 .... AR-1715-0220
11-R-282.1 .... AR-1715-0167
11-R-282.1A AR-1715-0229
11-R-282.2 .... AR-1715-0199
11-R-283.1 .... AR-1715-0007
11-R-284.2 .... AR-1715-0335
11-R-285.1 .... AR-1715-0278
11-R-285.1T AR-1715-0066
11-R-287.1 .... AR-1715-0182
11-R-291.1 .... AR-1715-0152
11-R-293.1 .... AR-1715-0053
11-R-294.0 .... AR-1715-0184
11-R-294.1 .... AR-1715-0111
11-R-295.1 .... AR-1721-0003
11-R-295.2 .... AR-1715-0033
11-R-296.0 .... AR-1715-0093
11-R-296.1 .... AR-1715-0360
11-R-297.1 .... AR-1715-0125
11-R-302.1 .... AR-1706-0004
11-R-302.2 .... AR-1715-0039
11-R-303.1 .... AR-1715-0038
11-R-321.1 .... AR-1714-0015
11-R-322.1 .... AR-1714-0016
11-R-323.1 .... AR-1715-0332
11-R-327.1 .... AR-1715-0351
11-R-328.1 .... AR-1715-0350
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11-R-333.6 .... AR-1408-0017
11-R-340.0 .... AR-1715-0260
11-R-341.1 .... AR-1715-0260
11-R-401.1 .... AR-1721-0006
11-R-401.2 .... AR-1715-0279
11-R-722.1 .... AR-1404-0002
11-R-723.1 .... AR-1409-0006
11-R-724.1 .... AR-1404-0004
11-R-727.7 .... AR-1715-0264
11-R-744.1 .... AR-1402-0036
11-R-745.1 .... AR-1402-0017
11-R-765.1 .... AR-1405-0011
11-R-840.0 .... AR-1709-0002
11-R-841.1 .... AR-1709-0001
11-R-841.2 .... AR-1709-0004
11-R-842.1 .... AR-1715-0387
11-R-843.1 .... AR-1709-0002
11-R-905.1 .... AR-1304-0001
11-R-F AR-1715-0074
11-R-F12 .... AR-1715-0232
11-R-F15 .... AR-1715-0024
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11-R-F42 .... AR-1715-0072
11-R-F9 .... AR-1715-0346

121-15B30 .... AR-1715-0102
121-15E20 .... AR-1715-0349
121-161.2 .... AR-1715-0102
121-163.1 .... AR-1715-0349
121-16F30 .... AR-1715-0256
121-21A10 .... AR-1715-0082
121-21G10 .... AR-1715-0487
121-21G20 .... AR-1715-0117
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121-21L10 .... AR-1715-0079
121-21L20 .... AR-1715-0079
121-21L20-T AR-1715-0371
121-21L40-T AR-1715-0371
121-21L50-EC AR-1717-0029
121-21R20 .... AR-1715-0353
121-21S20 .... AR-1715-0302
121-21T20 .... AR-1715-0128
121-21U50-EC AR-1717-0031
121-225.1 .... AR-1715-0084
121-226.1 .... AR-1715-0361
121-228.1 .... AR-1715-0211
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121-22F20 .... AR-1715-0084
121-22G20 .... AR-1715-0077
121-22J20 .... AR-1715-0101
121-22K20 .... AR-1715-0132
121-22K20 (TI) AR-1715-0127
121-22L10 .... AR-1715-0239
121-22L20 .... AR-1715-0239
121-22M20 .... AR-1715-0114
121-22N10 .... AR-1715-0390
121-22N20 .... AR-1715-0390
121-22N20-T AR-1715-0369
121-22N40-T AR-1715-0369
121-23G20 .... AR-1715-0361
121-23P20 .... AR-1715-0211
121-23Q20 .... AR-1715-0230
121-23V50-EC AR-1715-0293
121-24C10 .... AR-1715-0307
121-24C20 .... AR-1715-0307
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121-24C40-T AR-1715-0376
121-24D20 .... AR-1715-0101
121-24E10 .... AR-1715-0392
121-24E20 .... AR-1715-0392
121-24E30 .... AR-1715-0300
121-24E30-T AR-1715-0375
121-24E40 .... AR-1715-0373
121-24E40-T AR-1715-0375
121-24F20 .... AR-1715-0211
121-24F30 .... AR-1715-0276
121-24L10 .... AR-1715-0352
121-24L20 .... AR-1715-0352
121-24L20-T AR-1715-0419
121-24L40-T AR-1715-0419
121-24M10 .... AR-1715-0495
121-24M20 .... AR-1715-0162
121-24M30 .... AR-1715-0374
121-24N10 .... AR-1715-0120
121-24N20 .... AR-1715-0120
121-24N30 .... AR-1715-0374
121-24Q20 .... AR-1715-0361
121-24Q30 .... AR-1715-0165
121-24U10 .... AR-1715-0084
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121-24V50-T AR-1402-0027
121-254.1 .... AR-1715-0114
121-27A10 .... AR-1715-0297
121-27B20 .... AR-1715-0231
121-27B20-T AR-1402-0058
121-27C20 .... AR-1715-0115
121-27D20 .... AR-1715-0298
121-27E20 .... AR-1715-0299
121-27F20 .... AR-1715-0015
121-27G20 .... AR-1715-0301
121-27H20 .... AR-1715-0303
121-27Z50-EC AR-1717-0030
121-28M20 .... AR-1715-0377
121-46D20 .... AR-1715-0352
121-5900 .... AR-1715-0398
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121-F10 .... AR-1715-0276
121-F11 .... AR-1715-0165
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121-F14 .... AR-1715-0210
121-F15 .... AR-1715-0115
121-F16 .... AR-1715-0130
121-F17 .... AR-2201-0063
121-F18 .... AR-1715-0119
121-F21 .... AR-1715-0081
121-F22 .... AR-2201-0092
121-F23 .... AR-1715-0399
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121-F5 .... AR-1715-0232
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122-21F30 .... AR-1715-0116
122-21J20 .... AR-1715-0089
122-21S20 .... AR-1715-0302
122-375.2 .... AR-1715-0116
122-377.1 .... AR-1715-0103
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122-F2 .... AR-1715-0246
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1-23-C40B AR-2201-0009
1-23-C42 .... AR-2201-0133
1-23-C42B AR-1717-0002

1-250-C2 .... AR-1511-0006
1-250-C3 .... AR-1408-0059
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1-26-C40A AR-2201-0194

1-272-C40 .... AR-1715-0306
1-27-C42 .... AR-1405-0095
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12-A-2310A AR-1406-0014
12-A-2310B AR-1406-0012
12-A-2310D AR-1406-0008
12-A-5000 .... AR-0804-0002
12-A-C1 .... AR-1408-0014
12-A-C20 .... AR-1408-0014
12-A-C21 .... AR-1408-0054
12-A-C23 .... AR-1402-0028
12-A-C4 .... AR-1408-0029
12-A-C5 .... AR-1406-0018

12-B-2200 .... AR-1406-0007
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12-B-C3 .... AR-1408-0058
12-B-F1 .... AR-1406-0004
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12-E-14 .... AR-1404-0001
12-E-2 .... AR-1406-0006
12-E-3 .... AR-1402-0016
12-E-5 .... AR-1408-0008
12-E-7 .... AR-1406-0013
12-E-8 .... AR-1407-0001

12-G-2265 .... AR-1406-0021
12-G-F1 .... AR-1406-0004
12-G-F4 .... AR-1402-0003

12-I-F4 .... AR-1402-0003

12-N-5241 .... AR-1205-0001

12-O-17 .... AR-1406-0012
12-O-2 .... AR-1408-0058
12-O-3 .... AR-1408-0029
12-O-4 .... AR-1406-0018
12-O-6 .... AR-1406-0014
12-O-7 .... AR-1406-0004
12-O-8 .... AR-1406-0021
12-O-A AR-1408-0014
12-OE-25 .... AR-1205-0001
12-OE-26 .... AR-1406-0017

12-Q-2404 .... AR-1402-0010
12-Q-745.1 .... AR-1402-0010

12-R-075.6 .... AR-1406-0020
12-R-075.7A AR-1406-0013
12-R-075.7C AR-2201-0032
12-R-712.1 .... AR-1407-0001
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12-R-716.1 .... AR-1406-0019
12-R-716.2 .... AR-1401-0019
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12-R-716.3 .... AR-1408-0007
12-R-740.0 .... AR-1402-0030
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1-31-C40B/31V30 .... AR-1715-0492
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1-351-C40 .... AR-1715-0020
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140-35F10 .... AR-1715-0225

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14-A-C1 .... AR-1408-0052
14-A-C20 .... AR-1408-0052
14-A-C22 .... AR-1401-0009
14-A-C23 .... AR-1401-0018
14-A-C4 .... AR-1401-0009
14-A-F6 .... AR-2201-0107

14-E-2 .... AR-1401-0007

14-G-2800 .... AR-1408-0061
14-G-6000 .... AR-1408-0061
14-G-F10 .... AR-1401-0015
14-G-F13 .... AR-1408-0061
14-G-F7 .... AR-1401-0012
14-G-F8 .... AR-1401-0011
14-G-F9 .... AR-1401-0014

14-I-F1 .... AR-1408-0011
14-I-F15 .... AR-1401-0010
14-I-F21 .... AR-1402-0009
14-I-F3 .... AR-1408-0001
14-I-F4 .... AR-1405-0005

14-K-733.1 .... AR-1401-0001
14-K-F1 .... AR-1408-0011
14-K-F14 .... AR-1402-0034
14-K-F15 .... AR-1401-0010
14-K-F20 .... AR-1402-0033
14-K-F3 .... AR-1408-0001

14-L-733.1 .... AR-1401-0001
14-L-F14 .... AR-1402-0034
14-L-F15 .... AR-1401-0010

14-O-10 .... AR-1408-0001
14-O-16 .... AR-1408-0061
14-O-19 .... AR-1405-0005
14-O-20 .... AR-2201-0107
14-O-21 .... AR-0301-0001
14-O-3 .... AR-1401-0009
14-O-7 .... AR-1408-0011
14-O-A AR-1408-0052
14-OE-4 .... AR-1401-0003
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14-R-730.0 .... AR-1401-0007

14-S-732.1 .... AR-1401-0006

150-21M20 .... AR-1715-0118
150-25D20 .... AR-1715-0024
150-25E20 .... AR-1715-0041
150-25G20 .... AR-1715-0035
150-25H20 .... AR-1715-0242
150-25J20 .... AR-1715-0237
150-25K20 .... AR-1402-0007
150-25L10 .... AR-1715-0403
150-25L40 .... AR-1715-0401
150-25L40-T AR-1715-0402
150-34B20 .... AR-1706-0004
150-34C20 .... AR-1715-0039
150-34D20 .... AR-1715-0038
AR-1715-0253
150-34D20 (Phase I) AR-1715-0036
AR-1715-0044
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150-34E20 .... AR-1715-0045
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150-34H20 .... AR-1715-0068
150-34L20 .... AR-1715-0070
150-361.2 .... AR-1715-0228
150-362.1 .... AR-1715-0024
150-363.1 .... AR-1715-0359
150-364.1 .... AR-1715-0035
150-365.1 .... AR-1715-0237
150-379.1 .... AR-1715-0040
150-F1 .... AR-1715-0058
150-F2 .... AR-1402-0007
150-F3 .... AR-1715-0044
150-F4 .... AR-1715-0045
150-F5 .... AR-1715-0365
150-F6 .... AR-1715-0403
150-F7 .... AR-1715-0149

15E10-OSUT AR-1715-0486

160-31J20 .... AR-1715-0260
160-31J40 .... AR-1715-0008
160-31S20 .... AR-1715-0067
160-31S30 .... AR-1715-0094
160-31T20 .... AR-1715-0097
160-31T30 .... AR-1715-0063
160-32F10 .... AR-1715-0096
160-32F20 .... AR-1715-0096
160-32G10 .... AR-1715-0322
160-32G20 .... AR-1715-0322
160-341.6 .... AR-1715-0008
160-F1 .... AR-1715-0245
160-F19 .... AR-1715-0202
160-F2 .... AR-1715-0062
160-F3 .... AR-1715-0042
160-F4 .... AR-1715-0006
160-F5 .... AR-1715-0388

16-A-C20 .... AR-1408-0065
16-A-C22 .... AR-1408-0071
16-A-C23 .... AR-1513-0001

1-742-C42 .... AR-1715-0391

17-A-0200 .... AR-1715-0283
17-A-C1 .... AR-1717-0039
17-A-C20 .... AR-1717-0039
17-A-C20A AR-2201-0062
17-A-C20B AR-1717-0039
17-A-C22 .... AR-2201-0123
17-A-C23 .... AR-2201-0109
17-A-C3 .... AR-2201-0098
17-A-C4 .... AR-2201-0123
17-A-C5 .... AR-2201-0130
17-A-F19 .... AR-2201-0164

17-B-0200 .... AR-1715-0283
17-B-0600 .... AR-1717-0033
17-B-0606 .... AR-1717-0033
17-B-631A AR-1717-0033

17-E-1 .... AR-1715-0150
17-E-13 .... AR-2201-0039
17-E-2 .... AR-1715-0109
17-E-7 .... AR-1703-0017

17-O-2 .... AR-2201-0098
17-O-3 .... AR-2201-0123
17-O-4 .... AR-2201-0130
17-O-5 .... AR-1717-0033
17-O-7 .... AR-1715-0283
17-O-A AR-1717-0039

17-R-131.1 .... AR-1710-0003
17-R-131.6 .... AR-2201-0039
17-R-133.6 .... AR-2201-0039
17-R-312.1 .... AR-1715-0109
17-R-312.6 .... AR-1715-0150
17-R-312.7 .... AR-1715-0150
17-R-424.1 .... AR-1710-0003
17-R-632.1 .... AR-1703-0001
17-R-632.2 .... AR-1703-0001
17-R-632.6 .... AR-1703-0017
17-R-632.7 .... AR-1703-0017

19-0-17 .... AR-2201-0141

191-26T20 .... AR-1715-0278
191-84D20 .... AR-1715-0387
191-93D20 .... AR-1606-0069
191-F1 .... AR-1606-0006

198-205.1 .... AR-1715-0175
198-208.1 .... AR-1715-0316
198-26P20 .... AR-1715-0182
198-295.1 .... AR-1721-0003
198-295.2 .... AR-1715-0033
198-31R20 .... AR-1715-0131
198-35B20 .... AR-1715-0001
198-35B30 .... AR-1715-0004
198-35D20 .... AR-1721-0008
198-35D30 .... AR-1715-0155
AR-1721-0008
198-35E10 .... AR-1715-0160
198-35E20 .... AR-1715-0160
198-35E30 .... AR-1715-0010
198-35G10 .... AR-1715-0316
198-35G20 .... AR-1715-0316
198-35G30 .... AR-1715-0317
198-35H20 .... AR-1715-0354
198-35S20 .... AR-1715-0317
198-35T20 .... AR-1715-0394
198-401.3 .... AR-1715-0346
198-41E20 .... AR-1721-0006
198-41F20 .... AR-1715-0279
198-41G20 .... AR-1715-0346
198-F1 .... AR-1715-0194

19-A-C1 .... AR-1728-0026
19-A-C20 .... AR-1728-0026
19-A-C21 .... AR-1728-0025
19-A-C22 .... AR-1728-0035
19-A-C23 .... AR-1728-0001
19-A-C4 .... AR-1728-0035
19-A-C5 .... AR-1728-0031

19-B-C3 .... AR-1728-0005

19-E-10 .... AR-1728-0006
19E10-0SUT AR-1710-0054
19-E-13 .... AR-1728-0002
19-E-4 .... AR-1728-0003

19F10-OSUT AR-1710-0055

19-H-F3 .... AR-1728-0008

19-I-F2 .... AR-1728-0024

19-N-9322 .... AR-1728-0010
19-N-953.1 .... AR-1728-0010
19-N-F3 .... AR-1728-0008

19-O-2 .... AR-1728-0005
19-O-3 .... AR-1728-0035
19-O-4 .... AR-1728-0031
19-O-5 .... AR-1728-0027
19-O-6 .... AR-1728-0004
19-O-A AR-1728-0026
19-OE-11 .... AR-1728-0008
19-OE-12 .... AR-1728-0010

19-R-951.6 .... AR-1728-0003
19-R-952.6 .... AR-1728-0006

1-A-1980 .... AR-1606-0107
1-A-1980A AR-1606-0065
AR-1606-0066
AR-1606-0067
1-A-1980G AR-1606-0117
1-A-1981A AR-1606-0105
1-A-1981B AR-1606-0074
1-A-1981G AR-1606-0073

1-A-2518 .... AR-2201-0122
1-A-2519 .... AR-1606-0108

1-A-3160 .... AR-0799-0005

1-AD-C40A AR-2201-0012
1-AD-C40B AR-2201-0009
1-AD-C42A AR-2201-0057
1-AD-C42B AR-1717-0002

1-A-F12 .... AR-1606-0106
1-A-F13 .... AR-1704-0091
1-A-F2 .... AR-1606-0110
1-A-F30 .... AR-2201-0122
1-A-F4 .... AR-1606-0099
1-A-F7 .... AR-1606-0088
1-A-F8 .... AR-2201-0086
1-A-F9 .... AR-1606-0109

1B-061B AR-1606-0028
1-B-061C AR-1606-0116

1B-1980-B AR-1606-0028
1-B-1981B AR-1606-0074
1-B-1984 .... AR-1606-0125
1-B-1985 .... AR-1606-0124

1B-F1 .... AR-1408-0055

1-B-F11	AR-1606-0118
1-B-F12	AR-1606-0119
1-B-F18	AR-1606-0123
1-B-F22	AR-1606-0062
1-B-F29	AR-1606-0116
1-B-F36	AR-1606-0041
1-B-F37	AR-1606-0064
1-B-F40	AR-1606-0093
1-CM-C40	AR-1717-0046
1-CM-C42	AR-1717-0015
1-DM-C42	AR-1715-0391
1-E-18	AR-1704-0070
1-EE-C40A	AR-1715-0019
1-EE-C40B	AR-1715-0017
1-EE-C40C	AR-1715-0020
1-EE-C40D	AR-1715-0012
1-EE-C42A	AR-2201-0190
1-EE-C42B	AR-1715-0016
1-FM-C40A	AR-1715-0306
1-FM-C40B	AR-2201-0156
1-FM-C42A	AR-2201-0001
1-FM-C42B	AR-2201-0070
1-H-061B-B	AR-1606-0065
	AR-1606-0066
	AR-1606-0067
1-H-062B	AR-1606-0074
1-H-062C	AR-1606-0074
1-H-1980A	AR-1606-0065
	AR-1606-0066
	AR-1606-0067
1-H-1981B	AR-1606-0074
	AR-1606-0102
1-H-F17	AR-1704-0065
1-N-1981C	AR-1606-0074
1-O-14	AR-1606-0113
1-OE-6	AR-1606-0112
1-O-ZZ	AR-1606-0120
1-R-061B-B	AR-1606-0065
	AR-1606-0066
	AR-1606-0067
1-R-062B-C	AR-1606-0074
1-R-062C-C	AR-1606-0074
1-R-1981C	AR-1606-0074
1-R-670.0	AR-1704-0070
1-R-671.1	AR-1704-0029
1-R-671.2	AR-1704-0030
1-R-672.1	AR-1704-0067
	AR-1704-0084
1-R-672.2	AR-1704-0038
1-R-672.3	AR-1704-0074
1-R-673.1	AR-1704-0079
1-R-674.1	AR-1704-0052
1-R-675.1	AR-1704-0055
1-R-675.2	AR-1704-0048
1-R-675.3	AR-1704-0050
1-R-676.1	AR-1704-0069
1-R-677.1	AR-1704-0049
1-R-902.1	AR-1606-0069
1-R-907.1	AR-1704-0007
1-R-F10	AR-1606-0095
1-R-F25	AR-1704-0080
1-R-F35	AR-1606-0114
1-RM-C40A	AR-1408-0026
1-RM-C40B	AR-1717-0019
1-RM-C42	AR-1717-0020
201-05B10	AR-1715-0095
201-05B20	AR-1715-0095
201-05B40-EC	AR-2201-0083
201-05B42-I	AR-1404-0008
201-05C10	AR-1404-0009
201-05C10-CELT	AR-1404-0009
201-05C20	AR-1404-0009
201-05C40-EC	AR-1408-0024
201-05C40-I	AR-1715-0247
201-05E20	AR-1404-0017
201-05F20	AR-1409-0005
201-26Q10	AR-1715-0219
201-26R10	AR-1715-0430
201-F1	AR-1404-0003
202-293.1	AR-1715-0053
202-31M20	AR-1715-0053
202-31M40-I	AR-1715-0064
202-31N10	AR-1714-0001
202-31N10-CELT	AR-1714-0001
202-31N20	AR-1714-0001
202-F2	AR-1715-0425
2-17-C20	AR-1717-0039
2-17-C20-12A-M60A1	AR-1717-0039
2-17-C20(RA)	AR-2201-0062
2-17-C22	AR-2201-0123
2-17-C25	AR-1710-0057
2-17-C26	AR-2201-0165
2-17-C40	AR-2201-0002
2-17-C42	AR-2201-0183
2-17-F1	AR-2201-0171
2-1-C30	AR-1606-0121
2-1-C32	AR-1408-0063
	AR-1606-0121
221-16K20	AR-2201-0059
221-17B10	AR-1715-0250
221-17B1T	AR-1715-0493
221-17B20	AR-1715-0250
221-17B40-I	AR-2201-0018
221-17H20	AR-2201-0059
221-17K10	AR-1715-0498
221-17K20	AR-1715-0178
221-17L20	AR-2201-0116
221-17L20-I	AR-1715-0212
221-17M20	AR-1715-0284
	AR-1715-0393
221-17M30	AR-1715-0284
221-17Z50-EC	AR-2201-0183
221-186.1	AR-2201-0059
221-26E20	AR-2201-0116
221-26N20	AR-1715-0227
221-96H10	AR-1709-0010
221-F2	AR-1715-0224
221-F4	AR-1704-0013
222-93H10	AR-1704-0001
222-93H20	AR-1704-0001
222-93J10	AR-1704-0003
222-93J20	AR-1704-0003
222-93K20	AR-1704-0002
224.3C	AR-1715-0234
225ABA47331 (USAF)	AR-1703-0012
230-F1	AR-2201-0037
230-F3	AR-1606-0020
231-05D10	AR-1409-0009
231-05D20	AR-1606-0030
231-05D30	AR-1606-0029
	AR-2201-0104
231-05D40	AR-2201-0104
231-05G10	AR-1404-0005
231-05G20	AR-1404-0005
231-05G30	AR-1606-0079
	AR-1717-0054
231-05H10	AR-1409-0008
231-05H20	AR-1404-0016
231-05H30	AR-1717-0037
231-05K20	AR-1715-0248
231-05K30	AR-1717-0049
231-98G3L	AR-1717-0055
231-ASI A4	AR-1404-0011
231-F1	AR-1606-0011
231-F10	AR-1404-0018
231-F11	AR-1402-0050
231-F12	AR-2201-0207
231-F14	AR-2201-0198
231-F2	AR-1409-0003
231-F3	AR-1715-0333
231-F4	AR-1409-0004
231-F5	AR-1409-0007
231-F7	AR-2201-0206
232-98B20	AR-1728-0038
232-98C20	AR-1606-0012
232-98C30	AR-1717-0056
232-98D20	AR-1606-0079
232-98G30	AR-1717-0055
232-98G3L	AR-1717-0055
232-98J30	AR-2201-0209
232-F1	AR-1606-0016
232-F2	AR-2201-0200
232-F3	AR-2201-0201
232-F4	AR-2201-0202
233-98J10	AR-1715-0018
233-98J20	AR-1715-0018
233-98J30	AR-1715-0003
233-F2	AR-1715-0005
233-F3	AR-1715-0137
233-F5	AR-2201-0208
233-F7	AR-2201-0203
241-966.1	AR-1728-0037
241-96C20	AR-1728-0037
	AR-1728-0040
241-96C2L	AR-1728-0037
241-96C2L-I	AR-1728-0039
242-96D10	AR-1606-0115
242-96D20	AR-1606-0084
242-96D20-I	AR-1606-0128
242-96D40-EC	AR-1606-0002
242-96D40-I	AR-1606-0128
243-96B10	AR-1606-0134
243-96B20A	AR-1606-0034
243-96B20-I	AR-1606-0032
243-96B30	AR-1606-0132
243-96B40-EC	AR-1606-0001
243-F1	AR-1606-0007
243-F4	AR-1606-0005
244-97B20	AR-1606-0141
244-97B40	AR-1606-0004
	AR-1606-0140
244-97C40	AR-1606-0031
244-97D20	AR-1606-0035
244-AS1F 1	AR-1606-0026
2-44-C20	AR-2201-0082
2-44-C20(RA)	AR-2201-0127
2-44-C22	AR-1408-0019
2-44-C23	AR-2201-0111
	AR-2201-0112
2-44-C30	AR-1715-0105
2-44-C32	AR-1715-0105
2-44-C8	AR-2201-0090
244-F1	AR-1715-0206
244-F2	AR-1606-0025
244-F3	AR-1709-0005
244-F5	AR-1606-0026
	AR-1606-0027
244-F6	AR-1512-0002
250-0-1	AR-1511-0006
250-0844	AR-1601-0055
250-0846	AR-2201-0145
250-11D10	AR-1712-0001
250-11D2F	AR-1606-0044
250-11D40-I	AR-2201-0006
250-11F40-I	AR-2201-0007
250-11F50-EC	AR-2201-0049
250-12D20	AR-2201-0180
250-13E10	AR-1304-0004
250-13E40-I	AR-2201-0175
250-13F10	AR-1713-0008
250-15J10	AR-1601-0056
250-A-C2	AR-1511-0006
250-A-C3	AR-1408-0059
250-A-F1	AR-2201-0187
250-F1	AR-2201-0061
250-F5	AR-2201-0042
250-O-3	AR-1408-0059
250-O-8	AR-2201-0187
2-6-C20	AR-2201-0193

2-6-C20(RA) AR-2201-0193
2-6-C22 AR-1408-0028
2-6-C23 AR-2201-0110

2-6-F1 AR-2201-0166
2-6-F2 AR-2201-0168

2-7-C20 AR-2201-0192
2-7-C22 AR-2201-0124
2-7-C26 AR-2201-0223

2-7-F1 AR-2201-0167
AR-2201-0182
2-7-F2 AR-2201-0052

28-A5522 DD-0505-0002

28-E-1 DD-0504-0004
DD-0504-0005
28-E-2 DD-0504-0008

28-G-5505 DD-0504-0009

28-O-5 DD-0504-0007
28-O-6 DD-0504-0006

28-R-701.1 DD-0504-0001
DD-0504-0004
28-R-703.1 DD-0504-0004
DD-0505-0001
28-R-703.2 DD-0504-0004
DD-0505-0001
28-R-F1 DD-0504-0002

2-96-C42 AR-2201-0155

2-AC-C40 AR-1704-0004
2-AC-C42 AR-1704-0005

2B-061B-A AR-1606-0028
2B-061B-B AR-1606-0068
2B-061C AR-1606-0116
AR-1606-0125

2B-061C-B AR-1606-0068
2B-061C-C AR-1606-0104
2B-061C-D AR-1606-0122
2B-061C-E AR-1606-0093
2B-061C-F AR-1606-0028

2B-101B-A AR-1606-0068
2B-101B-B AR-1606-0028
AR-1606-0068

2B-101C-A AR-1606-0068
2B-101C-B AR-1606-0028
AR-1606-0068

2B-101C-C AR-1606-0125
2B-101C-D AR-1606-0104
2B-101C-E AR-1606-0093
2B-101C-H AR-1606-0111
2B-101D AR-1606-0122
2B-15A AR-1606-0111
2B-1980 AR-1606-0111
2B-1980-A AR-1606-0068
2B-1980-B AR-1606-0028
2B-1984 AR-1606-0125

2B-F10 AR-1606-0091
2B-F11 AR-1606-0061
2B-F13 AR-1606-0040
2B-F14 AR-1606-0089
2B-F15 AR-1606-0104
2B-F16 AR-1606-0104
2B-F17 AR-1606-0091
2B-F19 AR-1715-0133
2B-F2 AR-1606-0122
2B-F3 AR-1606-0093
2B-F5 AR-1606-0050
2B-F6 AR-1606-0096
2B-F7 AR-2201-0114
2B-F8 AR-1606-0098

2C-062B-A AR-1606-0070
2C-062B-B AR-1606-0074
2C-062B-C AR-1606-0075
2C-062B-D AR-1606-0127
2C-062D-A AR-1606-0051
2C-062D-B AR-1606-0064

2C-100B AR-1606-0074

2C-100B-A AR-1606-0070
2C-100B-B AR-1606-0074
2C-100B-C AR-1606-0074
AR-1606-0075

2C-100B-D AR-1606-0127
2C-100C-B AR-1606-0064
2C-100D AR-1606-0045
2C-100E AR-1606-0058
2C-100G AR-1606-0074
2C-15A AR-1606-0074
2C-15A-AF AR-1606-0127
2C-15AD-AF AR-1606-0127
2C-15AD-X AR-1606-0127
2C-1981-A AR-1606-0070
2C-1981-B AR-1606-0074
2C-1981-D AR-1606-0127
2C-1985 AR-1606-0124

2C-AST-1G AR-1606-0064

2C-F10 AR-1606-0043
2C-F11 AR-1606-0055
AR-1606-0056

2C-F12 AR-1606-0097
2C-F13 AR-1606-0126
2C-F14 AR-1606-0057
2C-F15 AR-1606-0059
2C-F16 AR-1606-0046
2C-F17 AR-1406-0009
2C-F18 AR-1606-0049
2C-F19 AR-1606-0060
2C-F2 AR-1606-0123
2C-F20 AR-1606-0063
2C-F22 AR-1606-0052
2C-F23 AR-1606-0047
2C-F24 AR-1606-0042
2C-F25 AR-1606-0048
2C-F26 AR-1606-0087
2C-F27 AR-1606-0124
2C-F29 AR-1606-0071
2C-F3 AR-1606-0053
2C-F32 AR-2201-0212
2-C-F7 AR-0801-0001
2C-F7(R) AR-0799-0007
2C-F7(RC) AR-0799-0007
2C-F9 AR-2201-0115

2E-1154 AR-1601-0027
AR-1601-0054

2E-1174 AR-2201-0063
2E-1190 AR-1402-0026
2E-11B/C AR-2201-0085
2E-13A AR-2201-0219
2E-13D AR-1601-0027
2E-14B AR-2201-0063
2E-1543 AR-2201-0085
AR-2201-0157

2E-ASI5H AR-2201-0187

2E-F1 AR-2201-0040
2E-F12 AR-2201-0163
2E-F13 AR-2201-0187
2-E-F15 AR-2201-0150
AR-2201-0158

2E-F16 AR-2201-0164
2E-F17 AR-2201-0153
2E-F18 AR-2201-0172
2E-F2 AR-2201-0041
2E-F21 AR-0802-0001
2E-F3 AR-2201-0038
2E-F30 AR-2201-0159
2E-F32 AR-2201-0028
2E-F34 AR-2201-0154
2E-F37 AR-2201-0053
2E-F38 AR-0803-0001
2E-F39 AR-2201-0151
2E-F45 AR-1606-0054
2E-F48 AR-2201-0060
AR-2201-0222

2E-F49 AR-2201-0218
2E-F5 AR-0802-0011
2E-F51 AR-2201-0147
2E-F56 AR-2201-0060
2E-F7 AR-2201-0051
2E-F8 AR-2201-0162

2E-F9 AR-1511-0007

2F-1111 AR-1715-0379
2F-1180A AR-2201-0095
2F-1180C AR-1715-0382
2F-1190D AR-2201-0101
2F-1190E AR-1715-0324
2F-1190L AR-2201-0011
AR-2201-0189

2F-1190P AR-1715-0324
2F-1190S AR-2201-0101
2F-13B AR-2201-0189
2F-13C AR-1715-0324
2F-14C AR-2201-0095
2F-14G AR-1715-0494

2F-241E AR-1715-0246

2F-F4 AR-2201-0095
2F-F5 AR-2201-0088
2F-F8 AR-2201-0063

2G-1115 AR-1715-0380
2G-1177 AR-1715-0315
2G-1178 AR-1715-0289
2G-1183 AR-1601-0027
AR-1601-0033
AR-1601-0054

2G-F10 AR-1606-0014
2G-F11 AR-1606-0015
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517-71P20-I AR-1704-0076
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531-744.1 .... AR-1402-0036
531-74A10 .... AR-1402-0030
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551-76P20 .... AR-1401-0016
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551-76R20 .... AR-1405-0034
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55-E-51 .... AR-1708-0004
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55-G-F1 .... AR-0419-0036
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55-R-661.2 .... AR-0419-0030
55-R-662.1 .... AR-0419-0029
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55-R-671.2 .... AR-1704-0010
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55-R-671.7 .... AR-1717-0009
55-R-672.2 .... AR-1704-0059
55-R-672.4 .... AR-1704-0043
55-R-672.7 .... AR-1717-0009
55-R-673.2 .... AR-1704-0053
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55-R-674.2 .... AR-1704-0058
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55-R-675.4 .... AR-1704-0040
55-R-676.4 .... AR-1704-0058
55-R-677.4 .... AR-1704-0035
55-R-678.1 .... AR-1704-0034
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580-72E20 .... AR-1404-0015
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5ABD22230 .... DD-1601-0002
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5A-F1 .... AR-0317-0002
5A-F2 .... AR-1115-0005
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5-AG-C40B AR-0419-0016
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5ALA-79131 (USAF) DD-0505-0001

5AZA79150 .... DD-0504-0003

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5-CO-C40B AR-1715-0021
5-CO-C42A AR-1408-0020
5-CO-C42B AR-1408-0045

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5H-F3 AR-0799-0009
5H-F4 AR-0801-0003

5K-F3 AR-1406-0001

5L-F1 AR-0326-0025

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5-R-514.1 AR-2201-0027
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5-SP-C42 AR-1408-0048

5-SS-C40 AR-0804-0001
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5-SU-C40A AR-1408-0044
5-SU-C40B AR-0419-0009
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652-61C20-I AR-1712-0002
652-61C30 AR-1712-0012
652-61E20 AR-1712-0004
652-61E20-I AR-1712-0009
652-61E30 AR-1712-0005
652-F1 AR-1712-0007

6-55-C40 AR-2201-0055
655-C42 AR-2201-0019

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662-52C20-I AR-1732-0004
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6-63-C42 .... AR-1717-0040

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670-41B20 .... AR-1721-0005
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670-41C10 .... AR-1721-0002
670-41C20 .... AR-1721-0002
670-41J20 .... AR-1706-0003
670-465.1 .... AR-1706-0003
670-601 .... DD-1721-0001

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6-8-C20(RC) AR-2201-0003
6-8-C21 .... AR-0799-0001
6-8-C21(VC) AR-0102-0001
6-8-C22 .... AR-0326-0016
6-8-C22(RC) AR-0799-0008
6-8-C24 .... AR-0799-0014
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690-467.1 .... AR-1710-0022
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6-A-1187 .... AR-1112-0001
6-A-1190 .... AR-1715-0274
6-A-1190A AR-1715-0274
6-A-1190B AR-1715-0309
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6-A-C2 .... AR-1715-0281
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6-A-C22 .... AR-1408-0028
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6A-F1 .... AR-2201-0086
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6-AM-C40 .... AR-2201-0055
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6-AV-C40 .... AR-1717-0006
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6-B-0200 .... AR-1715-0273

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6-B-631A AR-1703-0020

6-B-F1 .... AR-0707-0004

6-D-F29 .... AR-1715-0218

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6-N-163.2 .... AR-1715-0117

6-N-201A AR-1715-0175
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6-O-1 .... AR-1715-0281
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6-O-14 .... AR-2201-0142
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6-O-2B AR-2201-0135

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6-O-4A AR-1408-0042

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6-O-8 .... AR-2201-0140

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6-OE-35 .... AR-1304-0002
6-OE-36 .... AR-1715-0175
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6-R-102.1 .... AR-1715-0153
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6-R-211.1 .... AR-1715-0250
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6-R-631.6 .... AR-1717-0038
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6-R-632.1 .... AR-1703-0001
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6-R-632.2 .... AR-1703-0001
6-R-632.6 .... AR-1717-0038
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702-443.1 .... AR-1723-0004
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710-51C10 .... AR-1710-0030
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7-35-C20 AR-1404-0012
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740-302 DD-1719-0001
740-303 DD-1719-0002
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740-833.1 AR-1709-0003
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7-51-C40 AR-1710-0024
7-51-C42 AR-1601-0052

7-521-C40 AR-1408-0080
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780-51M20 AR-1728-0046

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7A-515-0160 (USMC) AR-1404-0001
7A-515-0161 (USMC) AR-1404-0001

7-A-C1 AR-2201-0192
7-A-C22 AR-2201-0124
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7A-F10 AR-0326-0021
7A-F17 AR-0326-0032
7A-F18 AR-0326-0024
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7A-F38 AR-0326-0029
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7B-F2 AR-1606-0024
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7C-2260 AR-1406-0004
7-C-2265 AR-1406-0021
7C-2310 AR-1406-0008
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7C-41A AR-1406-0004
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7C-F11 AR-1406-0030
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7D-2800 AR-1408-0061

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7D-6101 AR-1401-0001
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7D-F1 AR-1408-0061
7D-F13 AR-1408-0070
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7-E-19 AR-2201-0035

7-E-2 AR-1714-0004
7-E-24 AR-2201-0052
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7E-F1 AR-1402-0003
7E-F10 AR-1402-0015
7E-F11 AR-1402-0032
7E-F15 AR-1115-0003
7E-F18 AR-1402-0041
7E-F20 AR-1402-0033
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7F-8500 AR-1709-0006
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7G-46A DD-0504-0009

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7G-F3 (RC) DD-0504-0011

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7H-951B AR-1728-0008

7H-F10 AR-1728-0032
7H-F11 AR-1728-0008
7H-F12 AR-1408-0083
7H-F2 AR-1728-0027
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7K-F13 AR-0801-0004
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7M-F3 AR-0709-0013
7M-F3(RC) AR-0709-0020

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7M-F6 AR-2201-0105

7N-5000 AR-0804-0002

7-N-F1 AR-2201-0167
7-N-F13 AR-2201-0052
7-N-F2 AR-2201-0052
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7-O-8 AR-1703-0015

7-OE-13 AR-2201-0025
7-OE-15 AR-2201-0041
7-OE-6 AR-2201-0040

7-R-311.1 AR-1715-0108
7-R-311.7 AR-1714-0004

7-R-632.1 AR-1703-0001
7-R-632.2 AR-1703-0001

7-SR-C40 AR-2201-0074
7-SR-C42 AR-2201-0073

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800-94B10 AR-1729-0009
800-94B20 AR-1729-0009
800-94B30 AR-1729-0006
800-94D20 AR-1729-0010
800-94F10 AR-1729-0004
800-94F10(RC) AR-1729-0016
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800-F4 AR-0406-0005
800-F5 AR-0406-0001
800-F6 AR-0406-0006
800-F7 AR-0406-0001
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8-10-C22 AR-1408-0032
8-10-C23 AR-1405-0046
8-10-F1 AR-1408-0027

813-5600 AR-1708-0004
813-562.2 AR-2201-0036
813-61B20 AR-1722-0002
813-61B30 AR-2201-0036
813-61D20 AR-2201-0097
813-61D40-I AR-0419-0011
813-F1 AR-1715-0157

821-55F20 AR-2201-0119
821-56C2 AR-1601-0043
821-76W20 AR-1601-0043
821-76W20-I AR-1601-0005
821-F1 AR-1601-0003
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822-56E20 AR-0419-0001
822-56E40 AR-0419-0004
822-57H10 AR-0419-0001
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822-76X20 AR-1405-0044
822-76X40-I AR-1405-0066
822-F10 AR-0419-0021
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830-95B20 AR-1728-0029

830-95D10-RC AR-1728-0056
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830-F2 .... AR-1728-0003
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830-F8 .... AR-1728-0028
830-F8-RC AR-1728-0057
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831-95C10 .... AR-1728-0007
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8-A-3430 .... AR-0799-0003

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8-A-C2 .... AR-1408-0016
8-A-C20A AR-2201-0058
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8-A-C22 .... AR-0326-0016
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8-A-C5 .... AR-1408-0018

8A-F1 .... AR-1405-0071
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8A-F-20 .... AR-1728-0020
8A-F21 .... AR-0326-0018
8A-F23 .... AR-2201-0161
8A-F3 .... AR-0326-0005
8A-F5 .... AR-0326-0003
8AF-F3 .... AR-0326-0037

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8B-4490 .... AR-1405-0008
8B-4820 .... AR-2201-0136
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8-E-19 .... AR-0704-0001

8-E-2 .... AR-0104-0002
8-E-20 .... AR-0707-0002
8-E-21 .... AR-0701-0007
8-E-23 .... AR-0704-0002
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9-R-442.1	AR-1710-0027
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9-R-634.1	AR-1703-0019
9-R-635.1	AR-1703-0011
9-R-763.1	AR-1405-0026
9-R-773.1	AR-1405-0013
9-R-F19	AR-1715-0238
9-R-F21	AR-1715-0083
9-R-F22	AR-1714-0014
9-S-245.1	AR-1715-0238
9-S-247.1	AR-1715-0124
9-S-248.1	AR-1715-0123
9-S-249.1	AR-1715-0083
9-S-251.1	AR-1715-0077
9-S-252.1	AR-1715-0209
9-S-252.1(T)	AR-1715-0233
9-S-252.1(TI)	AR-1715-0233
9-S-253.1	AR-1715-0164
9-S-253.1 (T)	AR-1715-0126
9-S-254.1	AR-1715-0114
9-S-254.1(T)	AR-1715-0323
9-S-255.1	AR-1715-0159
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9-S-372.1	AR-1704-0089
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9-S-378.1	AR-1715-0089
9-S-379.1	AR-1715-0040
9-S-433.1	AR-1704-0086
9-S-435.1	AR-1704-0088
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9-S-F27	AR-1715-0088
9-S-F28	AR-1715-0100
9-S-F35	AR-1715-0103
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REQUEST FOR COURSE RECOMMENDATION

The applicant for credit must fill out one form for *each* service school course completed. The institutional official is responsible for verifying from official military records that the student completed the entire course, and for submitting the form to the Office on Educational Credit, American Council on Education, One Dupont Circle, Washington, DC 20036, ATTN: Military Evaluations. *Please Print.*

1. *Exact* course title (*do not abbreviate*) ____________________

2. Service branch offering the course:
   - ☐ Air Force
   - ☐ Army
   - ☐ Coast Guard
   - ☐ Department of Defense
   - ☐ Marine Corps
   - ☐ Navy

3. Name of service school attended: ____________________

4. Location (installation, state): ____________________

5. Length of course (*in weeks*): ____________________

6. Dates of attendance: From: __________ day/month/year To: __________ day/month/year

7. Official military course number: ____________________

8. MOS/AFSC/NEC: ____________________

9. Course was designed for:
   - ☐ Warrant Officers
   - ☐ Officer Candidates
   - ☐ Commissioned Officers
   - ☐ Enlisted Personnel
   - ☐ Aviation Cadets
   - ☐ Noncommissioned Officers

10. Rank or rating upon completion of the course: ____________________

11. Please give some indication of subjects studied in course: ____________________

____
SIGNATURE OF STUDENT

____
NAME OF STUDENT

____
STATUS (FRESHMAN, SOPHOMORE, ETC.)

DO NOT WRITE IN THIS SPACE
OEC STAFF USE

____
SIGNATURE OF COLLEGE OFFICIAL

____
NAME OF COLLEGE OFFICIAL

____
TITLE

____
INSTITUTION

____
STREET

____
CITY STATE ZIP CODE

____
AREA CODE NUMBER EXT.

REQUEST FOR ARMY ENLISTED AND WARRANT OFFICER MOS EXHIBITS

Officials should use this form only for requesting enlisted and warrant officer MOS exhibits that contain the phrase, "Pending evaluation." As MOS's are evaluated, they will be listed in the *OEC Newsletter.* When you want to obtain the recommendation for a newly evaluated MOS, identify the exhibit you are requesting by using the complete *OEC I.D. number* (e.g., MOS-21G-002), and the MOS title. Include the applicant's name if you would like the name mentioned in the OEC reply. Please check the form for accuracy before forwarding it to OEC. Submit the form to the Office on Educational Credit, American Council on Education, One Dupont Circle, Washington, DC 20036, attention Occupational Assessment Programs.

OEC I.D. Number	MOS Title Please print; do not abbreviate.	Name of Applicant

Signature of Official

Name of Official

Title

Institution or Organization

Street

City State Zip Code

Area Code Number Ext.

DO NOT WRITE IN THIS SPACE
OEC STAFF USE

Please retain file copies of any MOS recommendations received from the OEC Information Service.

AMERICAN COUNCIL ON EDUCATION

J. W. Peltason, *President*

The American Council on Education, founded in 1918 and composed of institutions of higher education and national and regional education associations, is the nation's major coordinating body for postsecondary education. Through voluntary and cooperative action, the Council provides comprehensive leadership for improving educational standards, policies and procedures.

The Office on Educational Credit and Credentials is the Council's division concerned with credit and credentialing policies and practices in postsecondary education. The role of the office and its policy-making and advisory arm, the Commission on Educational Credit and Credentials, is to give attention to educational credit and credentialing policies for postsecondary education; to foster high standards and sound practices for the evaluation and recognition of extra-institutional learning; to foster and operate programs to establish and publish credit equivalencies for extra-institutional learning, and to advise postsecondary education institutions on how these credit equivalencies can be used in placing students in academic programs and in credentialing educational accomplishment; to assist postsecondary education institutions in providing people with due recognition for competency, knowledge, and skills, wherever and however obtained; and to provide people with an alternative means of demonstrating high-school-graduation competencies. OECC makes credit recommendations for testing programs such as the College-Level Examination Program (CLEP) and administers the General Educational Development (GED) Testing Program. OECC also makes credit recommendations for formal courses offered by the military and other noncollegiate sponsors such as business, industry, government agencies, voluntary and professional associations, and labor unions; for Army military occupational specialties (MOS's) and Navy ratings; and for home study courses accredited by the National Home Study Council.